DIRECT VENT GAS FIREPLACE HEATER
MODEL 534 XAN (Natural Gas)
MODEL 534XAP (Propane)

Installation and Owner's Manual

Please read this manual before installing and operating this heater.
This manual should remain with the homeowner.

WARNING: If the information in these instructions is not followed exactly, a fire or explosion may result causing property damage, personal injury or loss of life.

- Do not store or use gasoline or other flammable vapors and liquids in the vicinity of this or any other appliance.

-WHAT TO DO IF YOU SMELL GAS

- **Do not try to light any appliance.**
- **Do not touch any electrical switch: do not use any phone in your building.**
- **Immediately call your gas supplier from a neighbor's phone. Follow the gas supplier's instructions.**
- **If you cannot reach your gas supplier, call the fire department.**

Installation and service must be performed by a qualified installer, service agency or the gas supplier.
<u>Massachusetts:</u> the piping and the final gas connection must be performed by a licensed plumber or gas fitter in the State of Massachusetts

This appliance may be installed in an aftermarket permanently located, manufactured (mobile) home, where not prohibited by local codes.
The appliance is only for use with the type of gas indicated on the rating plate. This appliance is not convertible for use with other gases, unless a certified kit is used.

This appliance is a domestic room heating appliance. It must not be used for any other purpose such as drying clothes etc.

This appliance is suitable for installation in a bedroom or bed sitting room.

Manufactured by
MILES INDUSTRIES LTD.
British Columbia, Canada

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1. SAFETY INFORMATION

WARNING: Do not operate the appliance with the glass front removed, cracked, or broken. Replacement of the glass should be done by a licensed or qualified service person.
(The whole window unit may be temporarily removed by the owner for cleaning the interior of the firebox, etc.)
Only the authorized Valor replacement window unit listed in the repair parts booklet must be fitted - never use substitutes.
If the glass is damaged, search inside and adjacent to the appliance for any glass fragments.

Due to high temperatures, the appliance should be located out of traffic and away from furniture and draperies.

Children and adults should be alerted to the hazards of high surface temperatures and should stay away to avoid burns or clothing ignition.

Young children should be carefully supervised when they are in the same room as the appliance.

Clothing or other flammable material should not be placed on or near the appliance.

This appliance must be installed and repaired by a qualified service person. The appliance should be inspected before use and at least annually by a professional service person. More frequent cleaning may be required due to excessive lint from carpeting, bedding material, etc. It is imperative that control compartments; burners and circulating air passageways of the appliance are kept clean.

Keep curtains, clothing, furniture, and other flammable materials a safe distance from all parts of the appliance and its vent system.

Keep the appliance area well clear and free from combustible materials, gasoline and other flammable vapors and liquids.

Never attempt to burn paper or any other material in the appliance.

The venting terminal must not be recessed into a wall or siding.

The vent terminal on the outside wall must be kept free from obstructions. No objects should be placed within 2 feet (60cm) of the vent terminal. The terminal is hot during operation and requires a guard if it is accessible to any person. An approved Valor guard is available from your dealer.

During extreme weather conditions ensure that the vent outlet is free from ice and snow before attempting to light.

Do not use this appliance if any part has been under water. Immediately call a qualified service technician to inspect the appliance and to replace any part of the control system and any gas control which has been under water.

NOTE

When operating your new fireplace for the first time, some vapors may be released due to the burning of curing compounds used in the manufacture of the appliance. They may cause a slight odor and could cause the flames to be the full height of the firebox, or even slightly higher, for the first few hours of operation. It is also possible that these vapors could set off any smoke detection alarms in the immediate vicinity. These vapors are quite normal on new appliances and are totally harmless but you may wish to open windows into the room to reduce the vapor/odor build up. After a few hours use the vapors will have disappeared and the flames will be at their normal height.

During the first hour of use, the ceramic firebox walls may go a smoky color. This is not soot. It is a temporary effect lasting only while the ceramic material becomes stabilized. The walls will revert to their initial color after your fire has been used for one or two hours.

2. OPTIONS

Heater engine unit #534XAN is used with all natural gas installations.
Heater engine unit #534XAP is used with all propane installations.

2.1. Appliance styles

Standard metal front. Black – **Kit #601SFB**
Cast iron front. Black – **Kit #602CFB.**
One of the above kits must be used with each installation.

2.2. Optional outer trims

3-sided Black – **Kit #603FSK**
3-sided Champagne – **Kit# 604FSK**
4-sided Black – **Kit #605FSK**
4-sided Champagne – **Kit# 606FSK**

2.3. Additional optional features

Circulating fan – Having two speeds and temperature control, it is designed to boost the natural convection process through the appliance. It may be fitted before the fireplace is installed or retrofitted at a later date – **Kit #555CFK**.

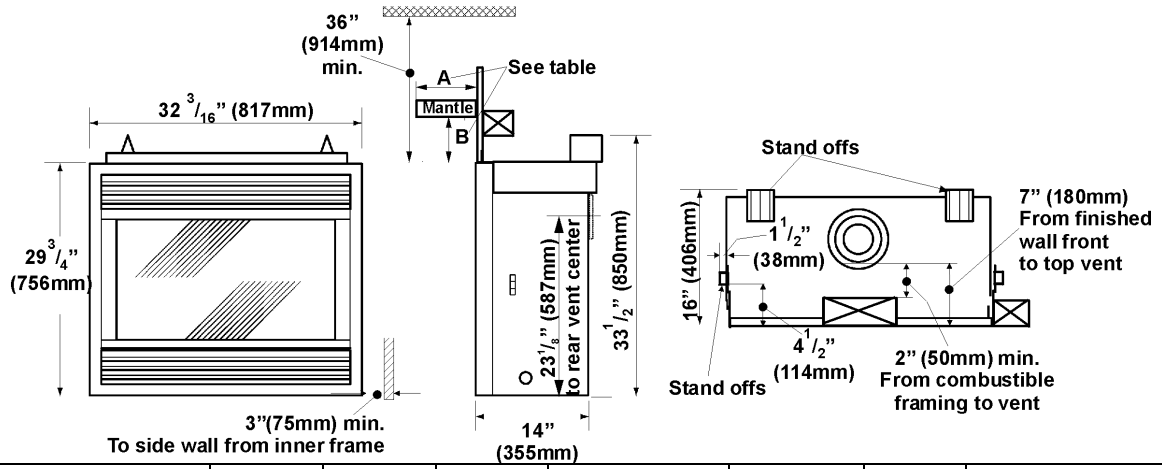
Natural Gas Conversion kit – For conversion from propane to natural gas – **Kit #607NGK**. Intended primarily for post installation conversion in areas where natural gas was not available at the time of initial installation.

2.4. Venting options

2.4.1. Direct vent installations

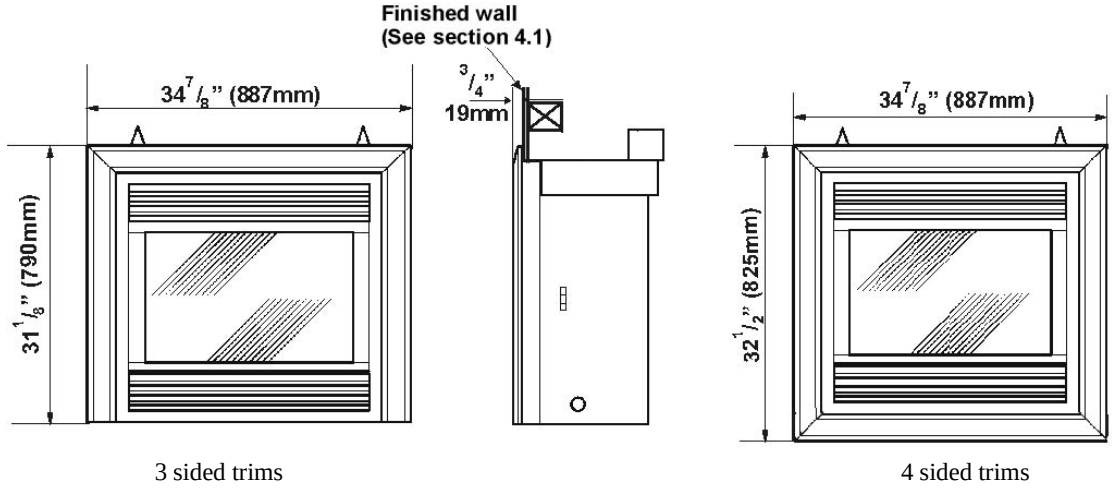
One or more of the accessories listed below must be used for each installation. See the "Location" section of this manual.

Kit#	
551DVK	Valor horizontal terminal kit provides up to 26" (66cm) horizontal run. Complete with wall plates and clearance shield approved for a maximum 14" (36cm) when fully concealed in a combustible wall.
817VAK	Adapter for Dura-vent pipes
984	Dura-vent DV GS horizontal square terminal cap
942	Dura-vent DV GS wall thimble kit
945B	45° Dura-vent DV GS elbow
990B	90° Dura-vent DV GS elbow
908B	6" Dura-vent DV GS pipe length
907B	9" Dura-vent DV GS pipe length
906B	12" Dura-vent DV GS pipe length
904B	24" Dura-vent DV GS pipe length
903B	36" Dura-vent DV GS pipe length
902B	48" Dura-vent DV GS pipe length
911B	Adjustable 11"-14$^{5}/_{8}$" Dura-vent DV GS pipe length
981	Dura-vent DV GS snorkel termination unit – 36" rise
982	Dura-vent DV GS snorkel termination unit – 14" rise
991	Dura-vent DV GS high wind vertical termination cap
940	Dura-vent DV GS round ceiling support
941	Dura-vent DV GS cathedral ceiling support box
963	Dura-vent DV GS ceiling fire stop
943	Dura-vent DV GS adjustable roof flashing. Roof pitch 0/12 – 6/12
943S	Dura-vent DV GS steep roof flashing. Roof pitch 7/12 – 12/12
953	Dura-vent DV GS storm collar
988	Dura-vent DV GS wall strap
835TG	Terminal Guard



Mantle depth "A"	1" (25mm)	2" (51mm)	3" (76mm)	4"-5" (102mm- 127mm)	6" (152mm)	7" (178mm)	8"–12" (203mm-305mm) max.
Mantle clearance "B"	7" (178mm)	8" (203mm)	9" (229mm)	10" (254mm)	11" (279mm)	12" (305mm)	14" (356mm)

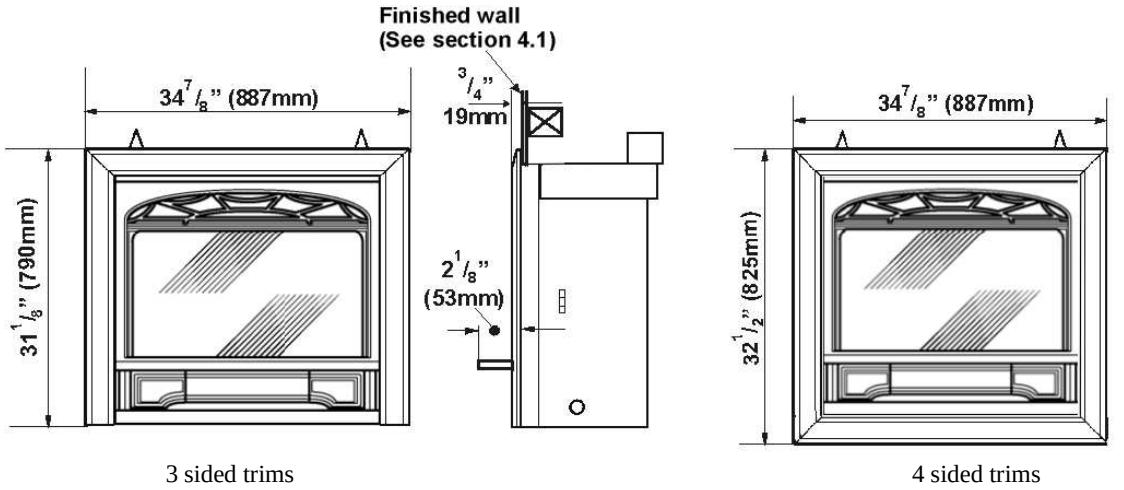
Figure 1 Major dimensions & clearances without optional trims (Shown with #601SFB Front)



3 sided trims

4 sided trims

Figure 2 #601SFB Front with optional trims



3 sided trims

4 sided trims

Figure 3 #602CFB Front with optional trims

3. GENERAL

3.1. Approvals & codes

These appliances are certified by C.S.A. for use in Canada and the USA. These appliances are for installation directly venting through an outside wall or through the roof.
Model 534XAN is for use with natural gas.
Model 534XAP is for use with propane. It can be converted for use with natural gas with kit #607NGK.
These appliances comply with *CGA P.4.1, Testing method for measuring annual fireplace efficiencies.*
The installation must conform with local codes or, in the absence of local codes with the *National Fuel Gas Code, ANSI Z223.1*or the *Canadian installation code CAN/CGA-149.* Only qualified licensed or trained personnel should install these appliances.
These appliances, when installed, must be electrically grounded in accordance with local codes or, in the absence of local codes, with the *National Electrical Code, ANSI/NFPA 70* or the *Canadian Electrical Code, CSA C22.1.*

3.2. Ratings

Model	534XAN	534XAP
Gas	Natural	Propane
Altitude (Ft)	0-4500 [1]	
Input Max. (Btu/h)	24,000	24,000
Input Min (Btu/h)	6,500	13,000
Manifold pressure (in.w.c.)	3.8-4.2	9.3-9.7
Min. Supply pressure (in. w.c.)	5.0	11.0
Max. Supply pressure (in. w.c.)	10.5	14.0

[1]Tested to *CAN/CGA - 2.17 Gas fired appliances for use at high altitudes*. In the USA, installations may require deration over 2000ft - Check local codes.

3.3. Wall Thickness

The vent system (when horizontally terminated) is approved to pass through combustible wall construction of up to 14" (36cm) thick.
A non-combustible wall can be any thickness up to the maximum horizontal run of vent pipe allowed for the particular installation – See section 4.

4. LOCATION

4.1. Framing

The framing dimensions are shown in

- A non-combustible hearth is not necessary in front of this appliance.
- Note that the unit is installed at the framing stage and fixed to framing using support angles (see figures 27 and 31). Wall finish is then installed over the support angles up to the black frame on the unit

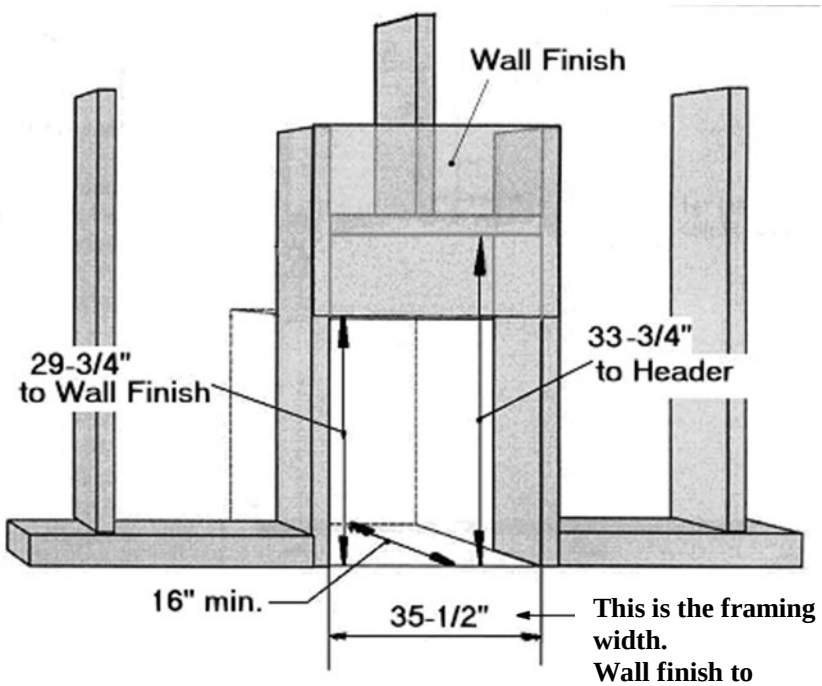


Figure 4 Framing

4.2. Rear Vent Connection. Flat on Wall

See figure 5.

Requires standard vent kit #551DVK only.

The horizontal vent run cannot be extended by the use of any vent accessory pipes.

4.3. Rear Vent Connection. Flat on Wall with Snorkel Termination

See figure 6.

For use on horizontal installations where the outsides ground level is too close to the standard terminal. Adapter #817VAK, a Dura-vent pipe length and snorkel termination #981 or #982 will be required (See vent options section of this manual).

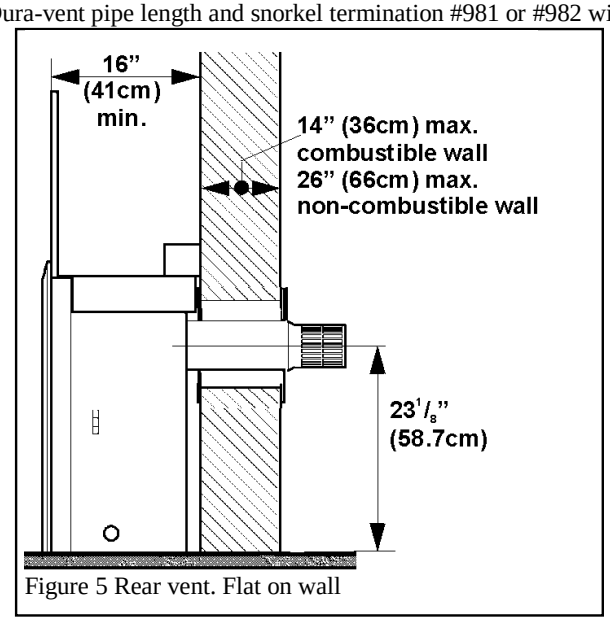


Figure 5 Rear vent. Flat on wall

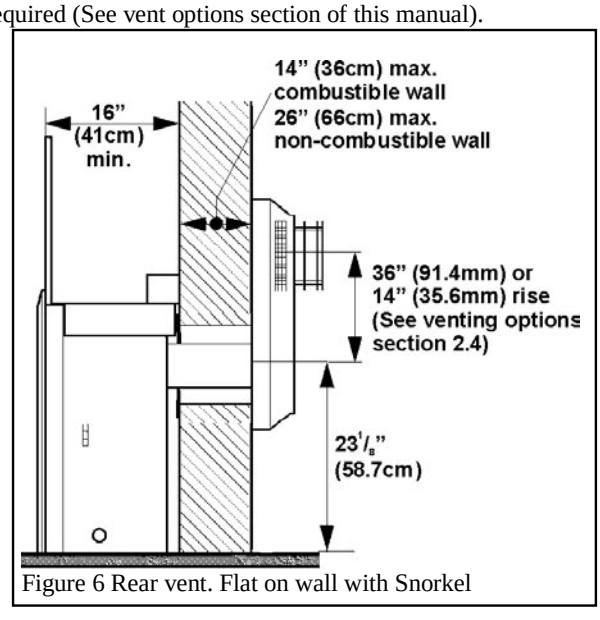


Figure 6 Rear vent. Flat on wall with Snorkel

4.4. Rear Vent Connection, Vertical Vent Rise with Horizontal Rear Termination

See figure 7.
Can be used with either #551DVK standard vent kit or #984 Dura-vent terminal cap and accessories.
Adapter #817VAK, two 90° vent elbows #990B and Dura-vent pipe lengths will be required.
(See venting options section of this manual).
The location requirements are shown in the table and graph below and figure 7.

	Minimum	Maximum
A: From floor to top of vent duct	4ft 3½" (131cm)	9ft 3½" (283cm)
B: Frame front face to outside wall	-	12ft 5½" (380cm)
C: Frame front face to inside wall	2ft 5½" (75cm)	-
D: Vertical pipe run between elbows	12" (30.5cm)	6ft (183cm)
E_1+E_2: Total horizontal pipe run including terminal pipe but excluding adapter and elbows	-	10ft (305cm) With no elbows in horizontal run
F: Clearance to combustible materials above horizontal pipe run inside building (Outside wall shields/thimbles)	1" (12.7cm)	-
G: Clearance to combustible materials below horizontal pipe run	$1^5/_{16}$" (3.3cm)	-
H: Clearance to combustible materials all round vertical pipe run and at sides of horizontal pipe run	2" (5.1cm)	-

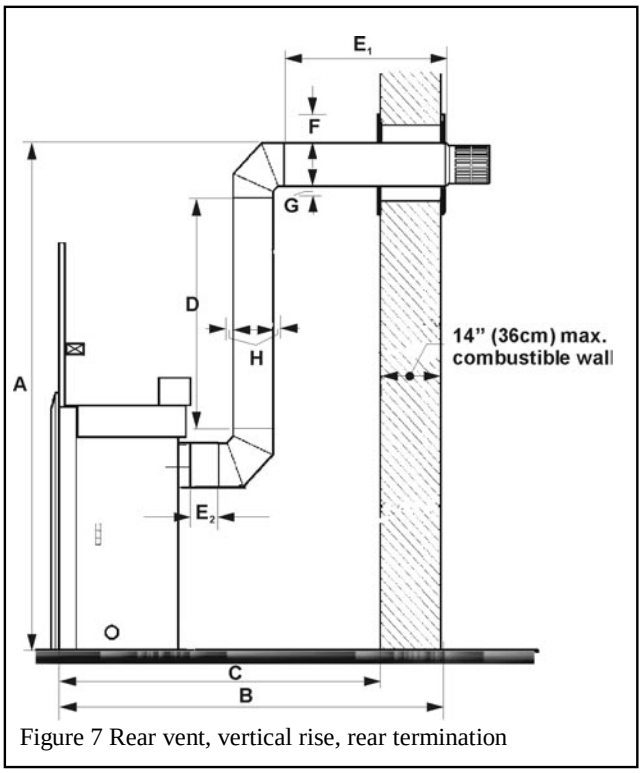
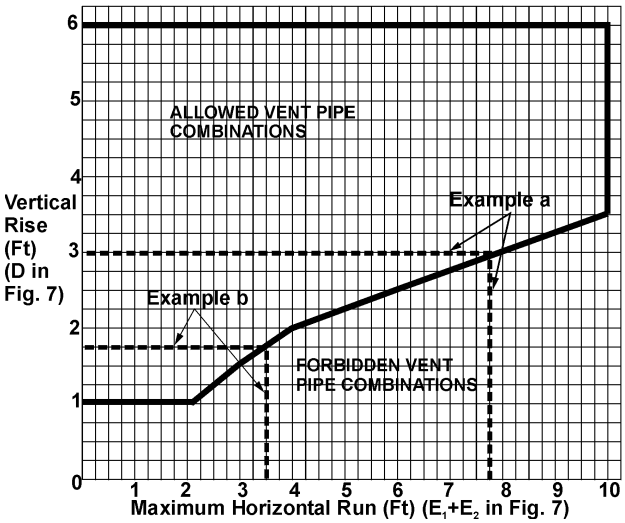


Figure 7 Rear vent, vertical rise, rear termination

For installations with a horizontal rear termination, the combination of horizontal and vertical vent pipes must be within the allowed area shown in Graph 1. A minimum vertical pipe run of 12" is necessary.



Graph 1

Example a: If a vertical rise of 3ft is required, the horizontal run must not be more than 7ft 9".

Example b: If a horizontal run of 3ft 6" is required, the vertical run must be at least 1ft 9".

If the horizontal pipe run is redirected using a further 90ºelbow, the maximum total horizontal run allowed is reduced by 3ft. to 7ft. Redirection using 45º elbows reduces the maximum total horizontal run by 18" per elbow.

4.5. Rear Vent Connection, Vertical Vent Rise with Horizontal Snorkel Termination

For "semi-basement" situations where a snorkel accessory alone does not raise the termination sufficiently above ground level. The dimensional requirements in section 4.4, figure 7, and graph 1 apply.
Adapter #817VAK, two 90º vent elbows #990B, Dura-vent pipe lengths and a Dura-vent snorkel termination will be required. #942 Dura-vent thimble kit may also be necessary. (See venting options section of this manual)

4.6. Corner Location, Rear Vent Connection, Horizontal Vent Run Only

See figure 8.

Can be used with either #551DVK standard vent kit or #984 Dura-vent terminal cap and accessories. Adapter #817VAK and 45º Dura-vent elbow # 945B will be required. (See venting options section of this manual.)

4.7. Corner Location, Rear Vent Connection, Vertical Rise, Horizontal Termination

See figure 9.

Can be used with either #551DVK standard vent kit or #984 Dura-vent terminal cap and accessories. Adapter #817VAK, two 90º Dura-vent elbows #990B and Dura-vent pipe lengths will be required. (See venting options section of this manual).

All the vent pipe dimensional limits are as section 4.4.

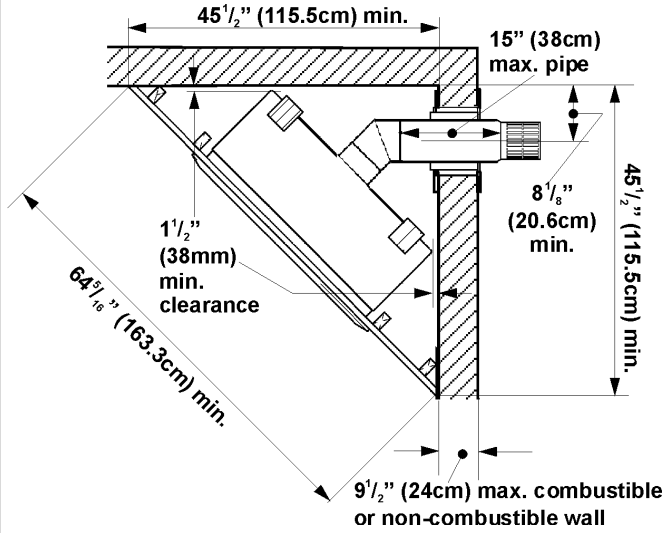

45 1/2" (115.5cm) min.
15" (38cm) max. pipe
8 1/8" (20.6cm) min.
45 1/2" (115.5cm) min.
1 1/2" (38mm) min. clearance
64 9/16" (163.3cm) min.
9 1/2" (24cm) max. combustible or non-combustible wall

Figure 8 Corner location, rear vent connection, horizontal vent run

4.8. Rear Vent Connection, Vertical Rise, Through the Roof Termination

See figure 10.

Adapter #817VAK, one 90º-vent elbow #990B, Dura-vent pipe lengths, a vertical vent terminal and roof flashing will be required. Various other ceiling or roof items may be necessary depending on the particular installation (See venting options section of this manual).

Note

1. The distance from the roof to the lowest terminal discharge opening depends on the roof pitch and must be in accordance with the Dura-vent instructions supplied with the termination unit.
2. The venting system for these appliances is considered to be a ***Special Venting System.*** The rule in the Installation Code CAN/CGA–B149 requiring a minimum vent height of 2ft above any portion of a building within 10ft does not, therefore, apply.

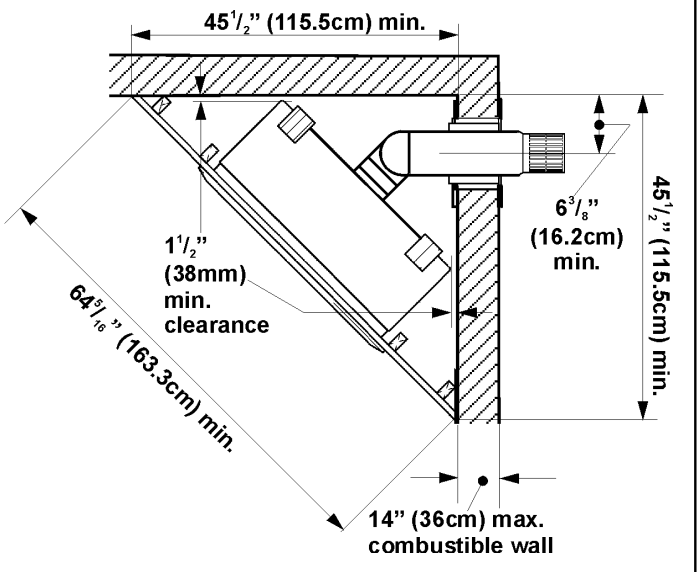


Figure 9 Corner location, rear vent connection, vertical rise, horizontal vent run

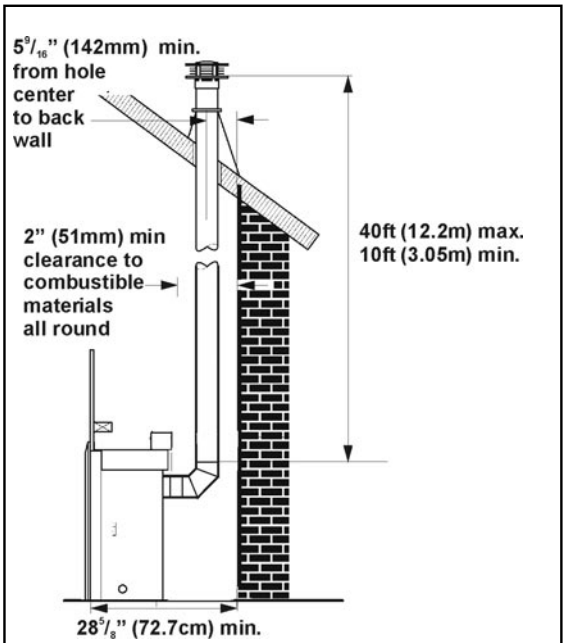

5 9/16" (142mm) min. from hole center to back wall
2" (51mm) min clearance to combustible materials all round
40ft (12.2m) max.
10ft (3.05m) min.
28 5/8" (72.7cm) min.

Figure 10 Rear vent connection, through the roof termination

4.9. Rear Vent Connection, Vertical Rise with Offset, Through the Roof Termination

See figure 11.

For situations where offset is necessary in an attic to avoid obstructions or allow useful space.

Adapter #817VAK, one 90º vent elbow #990B, two 45º vent elbows #945B, Dura-vent pipe lengths, a vertical vent terminal and roof flashing will be required. Various other ceiling or roof items may be necessary depending on the particular installation (See venting options section of this manual).

Note

1. The distance from the roof to the lowest terminal discharge opening depends on the roof pitch and must be in accordance with the Dura-vent instructions supplied with the termination unit.
2. The venting system for these appliances is considered to be a ***Special Venting System.*** The rule in the Installation Code CAN/CGA–B149 requiring a minimum vent height of 2ft above any portion of a building within 10ft does not, therefore, apply. (See figure 11a)

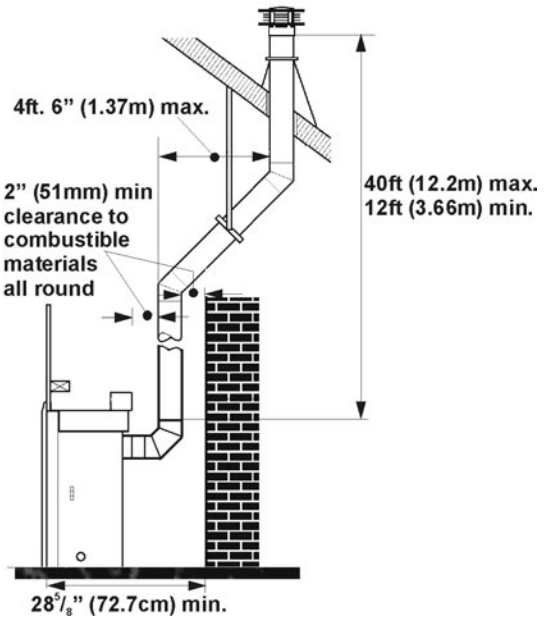
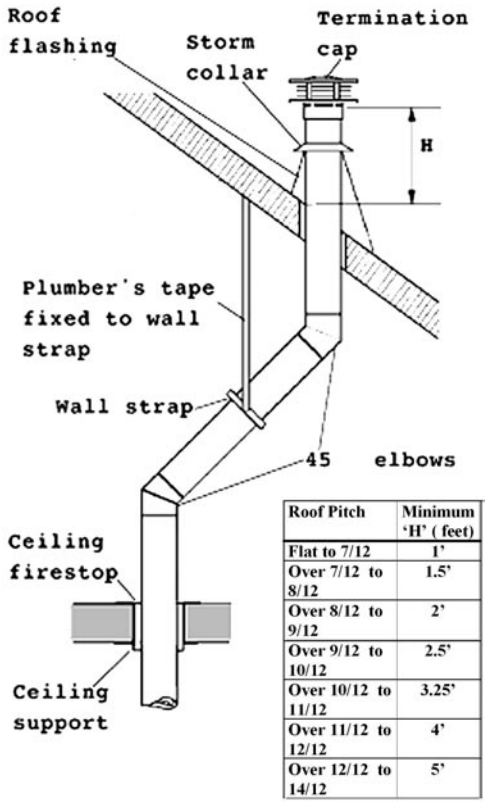


Figure 11 Rear vent connection, vertical rise with offset, through thru roof termination



Roof Pitch	Minimum 'H' (feet)
Flat to 7/12	1'
Over 7/12 to 8/12	1.5'
Over 8/12 to 9/12	2'
Over 9/12 to 10/12	2.5'
Over 10/12 to 11/12	3.25'
Over 11/12 to 12/12	4'
Over 12/12 to 14/12	5'

Figure 11a

4.10. Top Vent Connection, Horizontal Rear Termination

See figure 12.
Can be used with either #551DVK standard vent kit or #984 Dura-vent terminal cap and accessories.
Adapter #817VAK, one 90° vent elbow #990B and Dura-vent pipe lengths will be required.
(See venting options section of this manual).
The location requirements are shown in the table and graph below and figure 12.

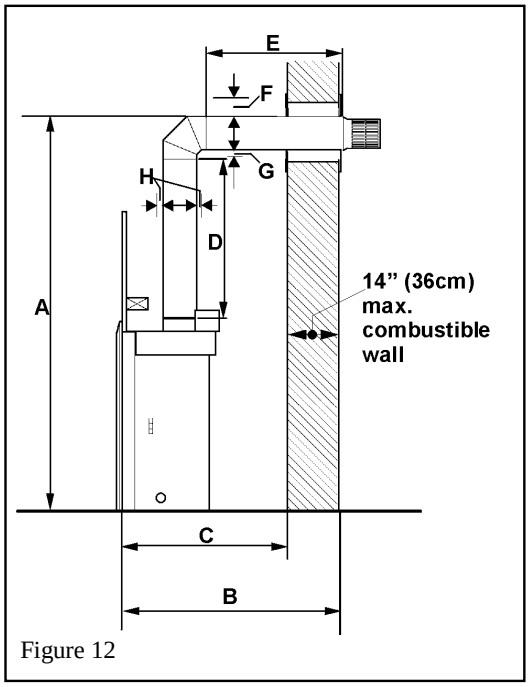
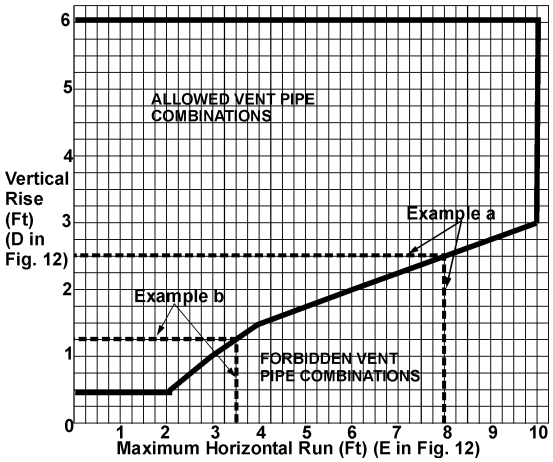


Figure 12

	Minimum	Maximum
A: From floor to top of vent duct	3ft $7^{9}/_{16}$" (111cm)	9ft $1^{9}/_{16}$" (278cm)
B: Frame front face to outside wall	-	11ft 4" (345cm)
C: Frame front face to inside wall	16" (75cm)	-
D: Vertical pipe run between elbows	6" (15.2cm)	6ft (183cm)
E: Total horizontal pipe run from elbow (including terminal pipe)	-	10ft (305cm) With no elbows in horizontal run
F: Clearance to combustible materials above horizontal pipe run inside building (Outside wall shields/thimbles)	1" (12.7cm)	-
G: Clearance to combustible materials below horizontal pipe run	$1^{5}/_{16}$" (3.3cm)	-
H: Clearance to combustible materials all round vertical pipe run and at sides of horizontal pipe run	2" (5.1cm)	-



Graph 2

For installations with a horizontal rear termination, the combination of horizontal and vertical vent pipes must be within the allowed area shown in Graph 2. A minimum vertical pipe run of 6" is necessary.

Example a: If a vertical rise of 2ft 6" is required, the horizontal run must not be more than 8ft".
Example b: If a horizontal run of 3ft 6" is required, the vertical run must be at least 1ft 3".

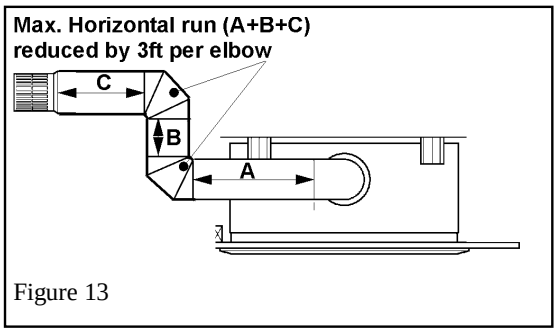


Figure 13

The horizontal vent pipe run may be redirected by using elbows up to a total of 180º but the maximum horizontal run (E in figure 5 & graph 1) is reduced by 18" for every 45º. For example if two 90º elbows are used as in figure 13 the maximum horizontal run is reduced by 3ft per elbow –

Total reduction = 6ft.

4.11. Top Vent Connection, Horizontal side termination

The vent pipe dimensional requirements in section 4.10 apply.
The minimum floor location is shown in figure 14.
Can be used with either #551DVK standard vent kit or #984 Dura-vent terminal cap and accessories.
Adapter #817VAK, one 90° vent elbow #990B and Dura-vent pipe lengths will be required.
(See venting options section of this manual).

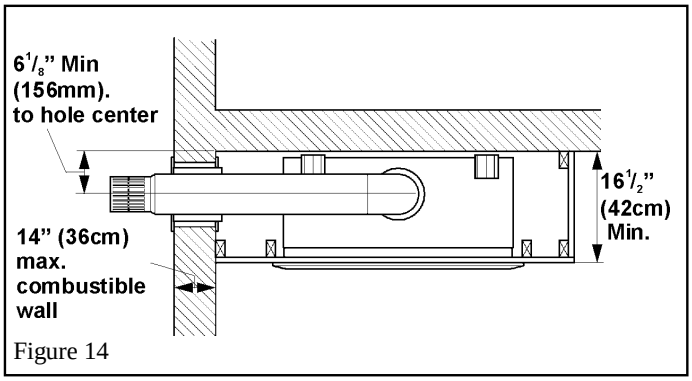


Figure 14

4.12. Top Vent Connection, Horizontal Side or Rear Snorkel Termination

The dimensional requirements in sections 4.10 and 4.11 apply.
Adapter #817VAK, one 90° vent elbow #990B, a Dura-vent snorkel termination and Dura-vent pipe lengths will be required.
#942 Dura-vent thimble kit may also be necessary.
(See venting section of this manual).

4.13. Top Vent Connection, Corner Location, Horizontal Termination, 45° Pipe Run

The vent pipe dimensional requirements in section 4.10 apply.
The minimum corner location is shown in fig. 15.
Can be used with either #551DVK standard vent kit or #984 Dura-vent terminal cap and accessories.
Adapter #817VAK, one 90° vent elbow #990B and Dura-vent pipe lengths will be required. (See venting section of this manual).

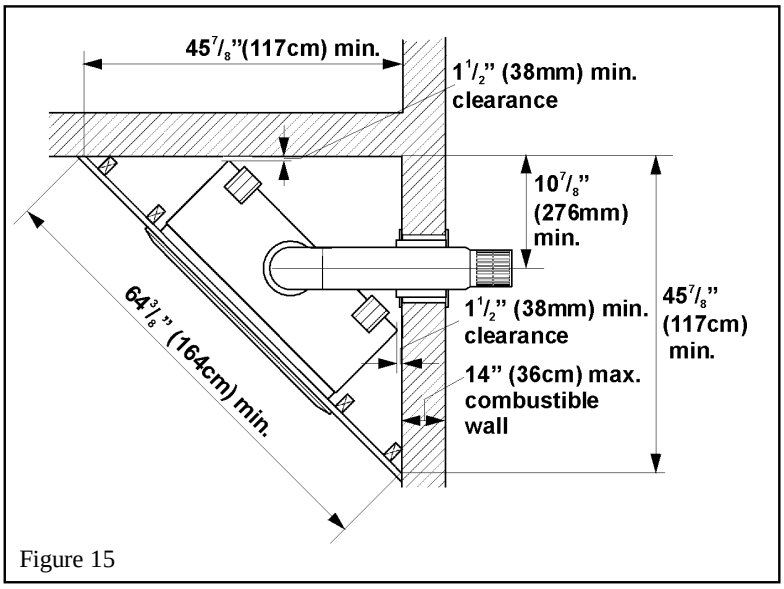


Figure 15

4.14. Top Vent Connection, Through the Roof Termination*

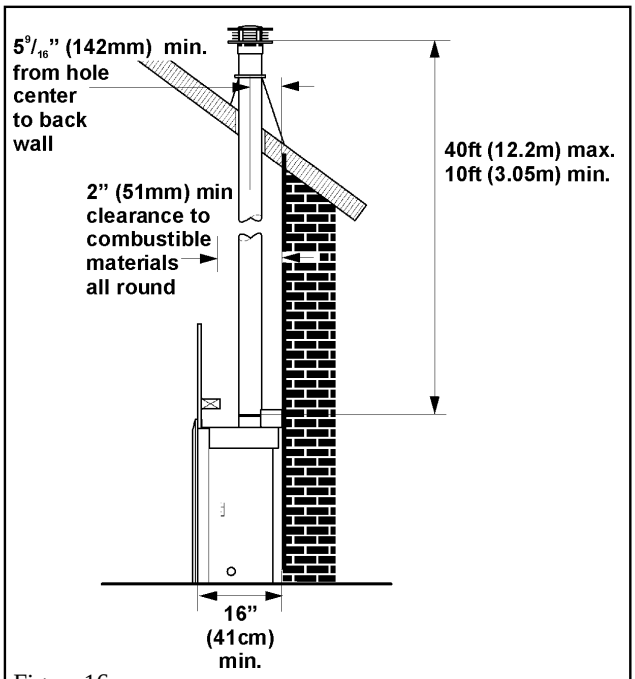
See figure 16.
Adapter #817VAK, Dura-vent pipe lengths, a vertical vent terminal, and roof flashing will be required. Various other ceiling or roof items may be necessary depending on the particular installation (See venting options section of this manual).

4.15. Top Vent Connection, Offset and Through the Roof Termination*

See figure 17.
For situations where offset is necessary in an attic to avoid obstructions or allow useful space.
Adapter #817VAK, two 45° vent elbows #945B, wall straps, a vertical vent terminal, roof flashing and Dura-vent pipe lengths will be required. Various other ceiling or roof items may be necessary depending on the particular installation (See venting options section of this manual).

***Note**

1. The distance from the roof to the lowest terminal discharge opening depends on the roof pitch and must be in accordance with the Dura-vent instructions supplied with the termination unit.
2. The venting system for these appliances is considered to be a ***Special Venting System.*** The rule in the Installation Code CAN/CGA–B149 requiring a minimum vent height of 2ft above any portion of a building within 10ft does not, therefore, apply. (see figure 17a)


5 9/16" (142mm) min. from hole center to back wall
2" (51mm) min clearance to combustible materials all round
40ft (12.2m) max.
10ft (3.05m) min.
16" (41cm) min.
Figure 16

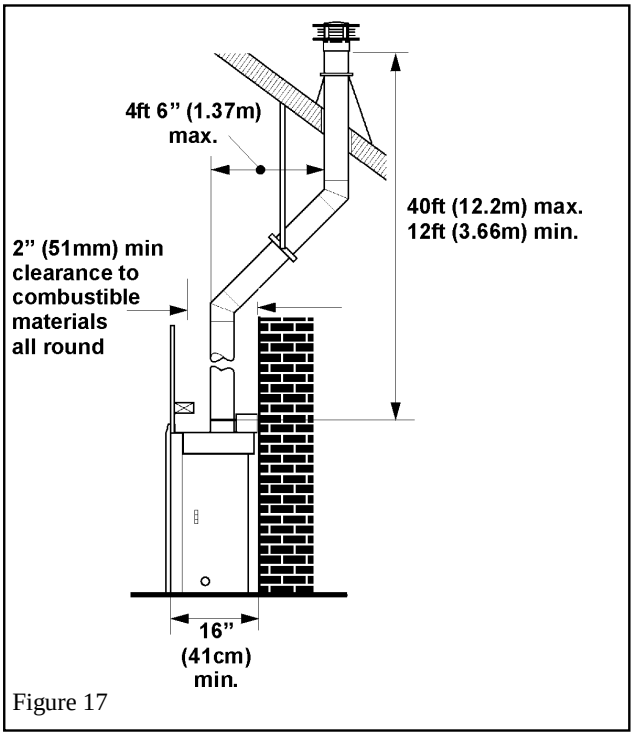
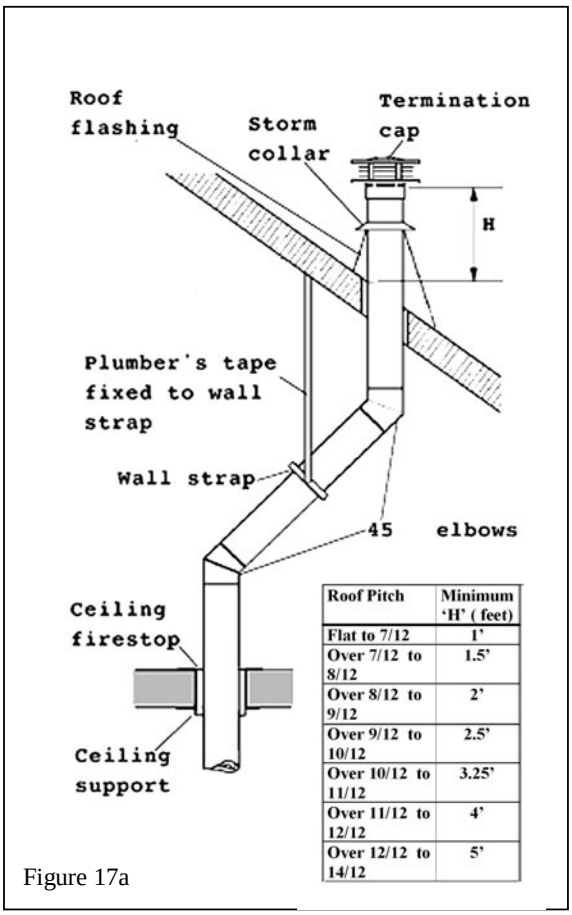


Figure 17



Roof Pitch	Minimum 'H' (feet)
Flat to 7/12	1'
Over 7/12 to 8/12	1.5'
Over 8/12 to 9/12	2'
Over 9/12 to 10/12	2.5'
Over 10/12 to 11/12	3.25'
Over 11/12 to 12/12	4'
Over 12/12 to 14/12	5'

Figure 17a

Vent Location

- The vent terminal must be located on an outside wall or through the roof.
- This direct vent appliance is designed to operate when an undisturbed airflow hits the outside vent terminal from any direction.
- The minimum clearances from this terminal that must be maintained when located on an outside wall are shown in figure 18. Any reduction in these clearances could result in a disruption of the airflow or a safety hazard. Local codes or regulations may require greater clearances.
- The vent terminal must not be recessed into a wall or siding.
- The vent terminal should be positioned where it will not be covered by any snowdrifts.

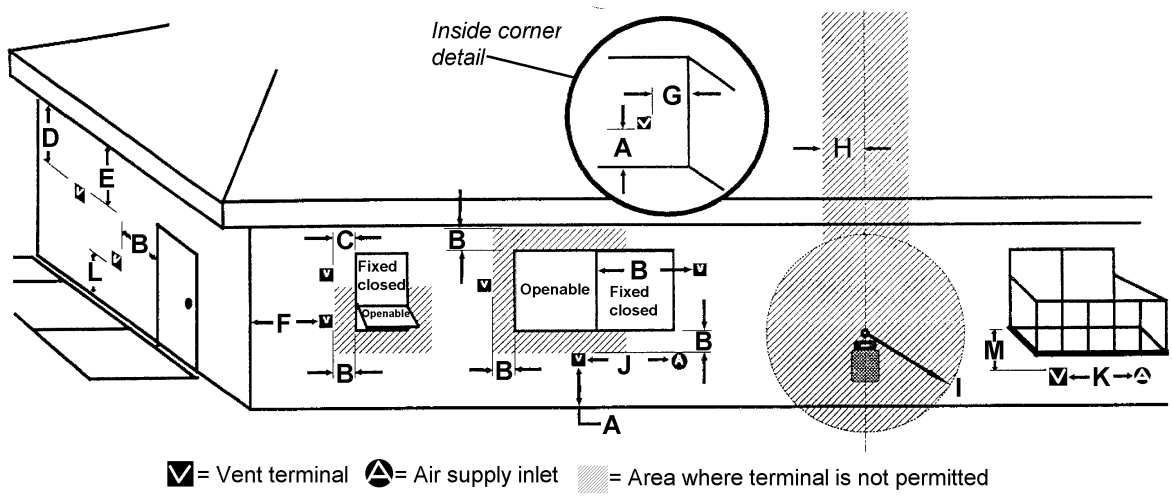


Fig. 18 Vent terminal locations

KEY	VENT TERMINAL LOCATIONS - MINIMUM DISTANCES *See figure 18*	MINIMUM CLEARANCE	
		Ins	Cms
A	Clearance above grade, verandah, porch, deck or balcony	12	30
B	Clearance to window or door that may be opened	12	30
C	Clearance to permanently closed window (recommended to prevent condensation on window)	12	30
D	Vertical clearance to ventilated soffit located above the terminal within a horizontal distance of 2 feet (60 cm) from the center-line of the terminal	18	46
E	Clearance to unventilated soffit	12	30
F	Clearance to outside corner	12	30
G	Clearance to inside corner	12	30
H	Horizontal clearance to center-line of meter/regulator assembly located below the terminal	36	90
I	Clearance to service regulator vent outlet	72	180
J	Clearance to non-mechanical air supply inlet to the building or the combustion air inlet to any other appliance	12	30
K	Clearance to a mechanical air supply inlet	72	180
L	Clearance above paved sidewalk or a paved driveway located on public property. ***Note:*** *A vent must not terminate directly above a sidewalk or paved driveway, which is located between two single-family dwellings and serves both dwellings.*	84	210
M	Clearance under a verandah, porch, deck or balcony *Only permitted if veranda, porch, deck, or balcony is fully open on a minimum of 2 sides beneath the floor.*	12	30

Note: Local codes and regulations may require different clearances.

5. SUPPLY GAS

Heater engine unit #534XAN is used with all natural gas installations.
Heater engine unit #534XAP is used with all propane installations.
The supply pressure must be between the limits shown in section 3.2 of this manual.
The supply connection is $^{3}/_{8}$''NPT.
The opening for the gas supply line is at the rear left corner of the appliance.

6. PACK CONTENTS

See figure 19

#534XAN or #534XAP Engine unit

1 Appliance engine unit fitted with window
1 Ceramic ash bed
7 Ceramic logs
1 Firebox ceramic rear wall
2 Firebox ceramic sidewalls
1 Port cover
2 Frame side fixing brackets
1 Ash bed rear support
2 Restrictor plates type "A"
2 Restrictor plates type "B"
2 Restrictor plates type "C"
1 Gas inlet pipe connection adapter
1 Top heat shield panel with blanking plate
1 Frame top support angle
2 Stand-off brackets
2 Screws for wall switch plate
4 Screws for frame side fixing brackets
2 Screws for top heat shield panel
3 Screws for frame top support angle
6 Screws for standoff brackets
2 Screws for vent fixing
4 Woodscrews for fixing appliance to studding
1 Deluxe remote control

#601SFB Standard metal front (Alternative)

1 Upper louver unit
1 Lower louver unit
2 Side channels
2 Hinge studs
2 Hinge spacers
2 Magnet counter plates

#602CFB Cast iron front (Alternative)

1 Top casting unit
1 Bottom casting unit

#551DVK Standard horizontal through the wall vent kit (Alternative to Dura-vent unit)

1 Vent pipe & terminal unit
2 Wall plates
2 Wall shields (Supplied flat)
12 Thread cutting screws
1 Styrofoam cutting support do-nut
8 Wood screws
8 Wall plugs

#555CFK Circulating fan kit (Additional option)

Details are with the kit

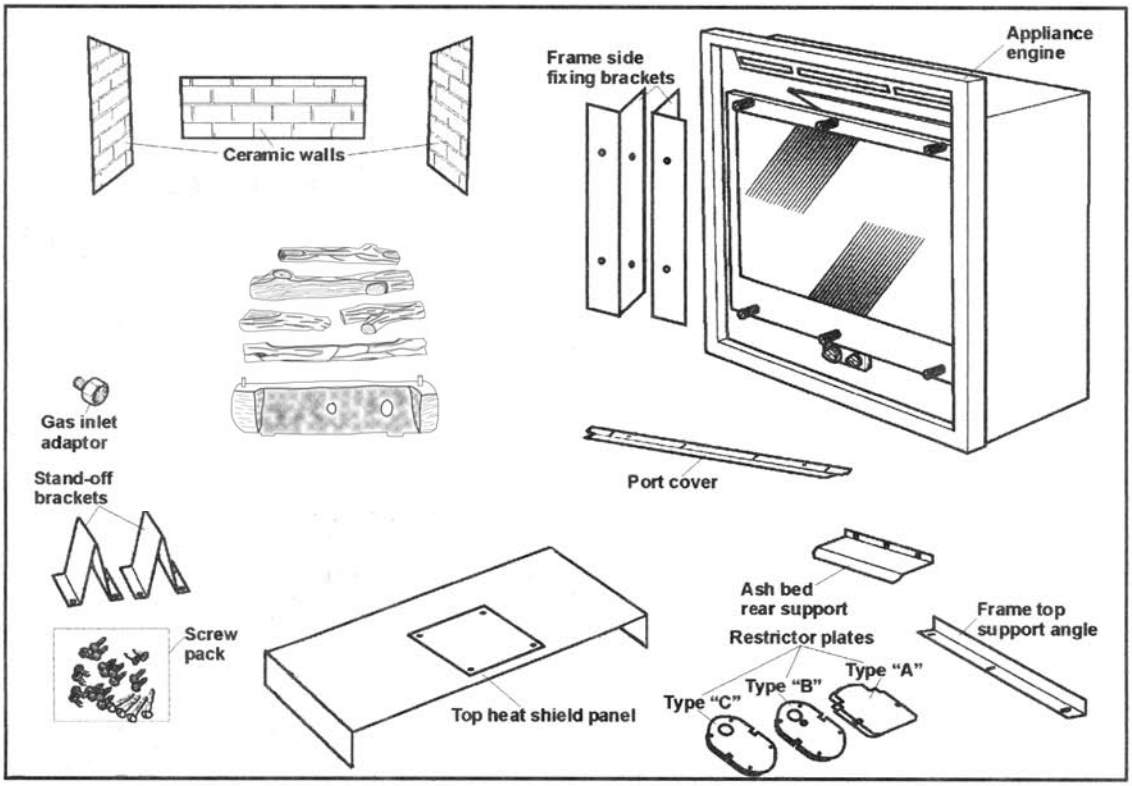
#603FSK Black or #604 Champagne Additional optional 3 sided trims

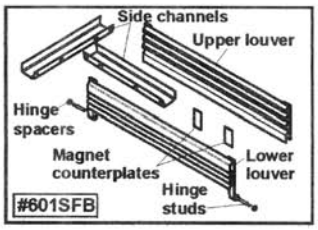
1 Top trim
2 Side trims
2 Trim fixing brackets
2 Corner connection plates
8 Grub screws for corner connections
10 Screws for side trims & engine attachment

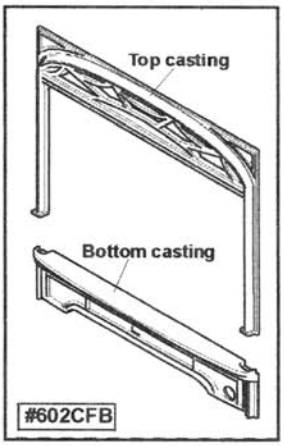
#605FSK Black or #606FSK Champagne Additional optional 4 sided trims

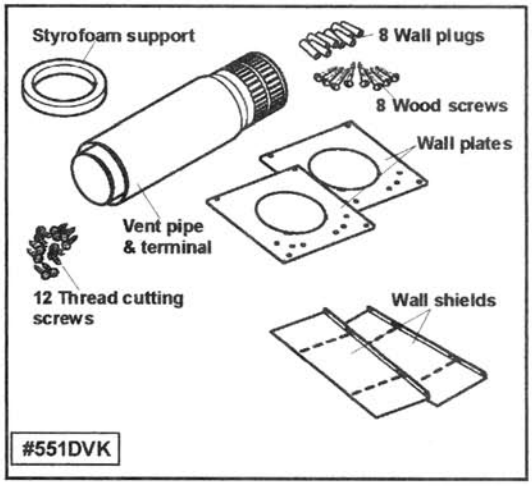
2 Top & bottom trims
2 Side trims
2 Trim fixing brackets
4 Corner connection plates
16 Grub screws for corner connections
10 Screws for side trims & engine attachment

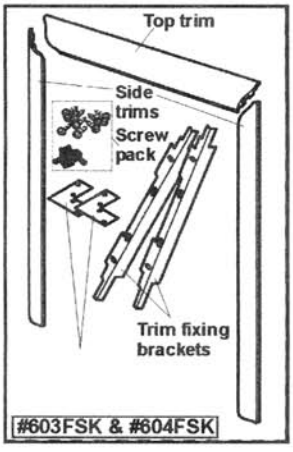
Take care when removing the contents from the packaging to prevent damage. Check that all the contents are in the packs and are undamaged.











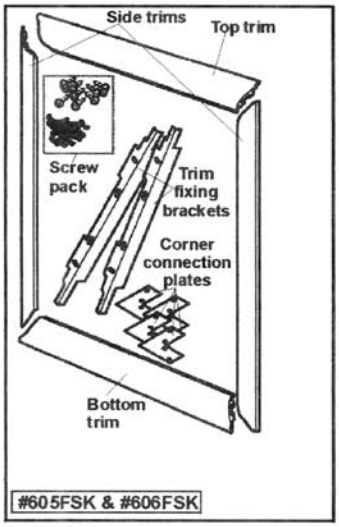


Figure 19 Pack contents

7. APPLIANCE PREPARATION

7.1. Window Removal

See figure 20.

- Turn the top three spring loaded window bolts through 90^0 to release the window from the firebox.
- Remove the bottom three spring-loaded window bolts.
- Detach the chain from the top right corner of the window.
- Carefully lift the window away. Keep the window and bolts in a safe place.

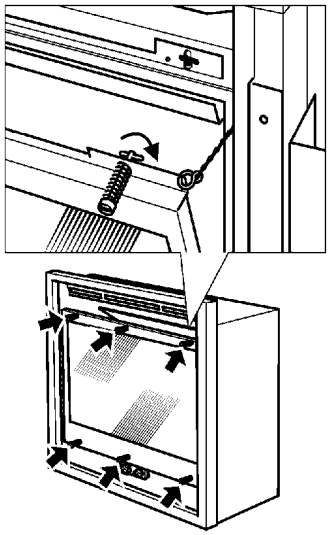


Figure 20 Window removal

7.2. Ignition Spark Check

The pilot burner and electrode unit is at the left end of the burner.
Push in the lighting knob and turn counter-clockwise through the "IGN" position to "PILOT". A spark should flash across from the pilot electrode to the pilot burner shield.
See figure 21.

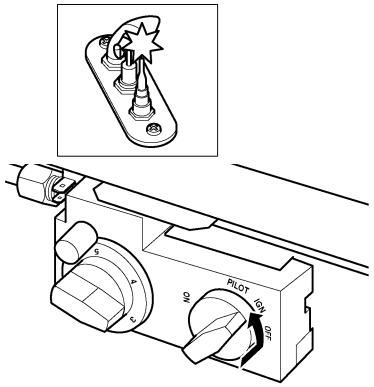


Figure 21 Ignition spark check

7.3. Rear Vent Outlet positioning

If installing with top vent outlet ignore this stage

See figure 22

1. Remove the rear outlet cover plate and seal by unscrewing 12 screws. Keep the seal and plate for fitting to the top.
2. Remove the top outer vent collar and seal by unscrewing 12 screws.
3. Remove the top inner vent collar and seal by unscrewing 8 screws.
4. Locate the inner collar and seal inside the rear outlet opening. Secure the inner collar with 8 screws.
5. Fit the outer collar over inner collar. Loosely fit the 12 screws. Place the Dura-vent adapter #817VAK or Valor terminal unit #551DVK over the collars to check alignment. Tighten the 12 screws to secure the outer collar.
6. Fit the cover plate and seal (Removed from the rear) to the top vent opening with 12 screws.

7.4. # 817VAK Pipe Adapter Fitting

If installing flat on wall with Valor terminal unit #551DVK ignore this stage.

See figure 23.

1. Fit the Dura-vent adapter #817VAK over the appliance vent collars pushing on firmly.
2. For rear vent outlet connection, align the adapter so that the seam on horizontal Dura-vent pipes is not at the bottom – Check by temporarily fitting a Dura-vent pipe.
3. Drill through the adapter outer tube and appliance outer collar for #6 screws. See figure 40. *Make sure that the drill does not penetrate the inner tubes.*
4. Secure the adapter to the outer collar with two #6 thread cutting screws supplied.

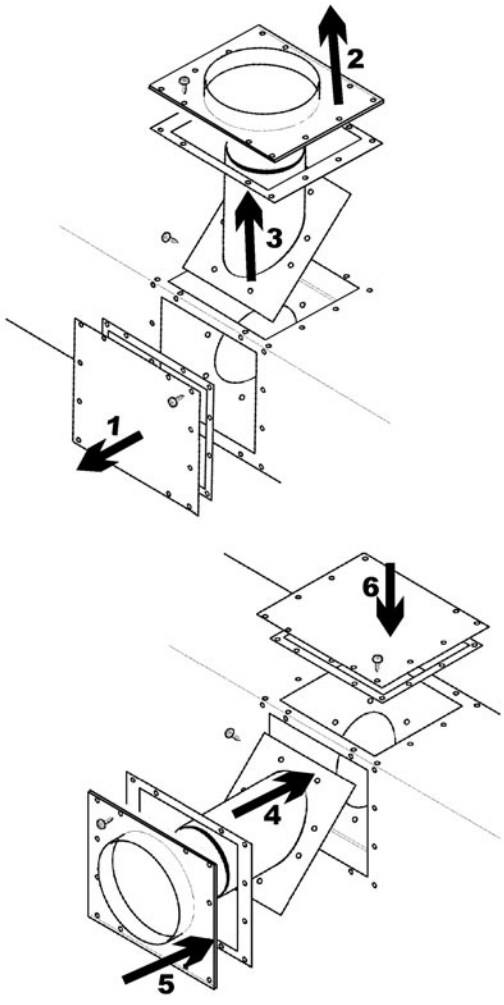


Figure 22

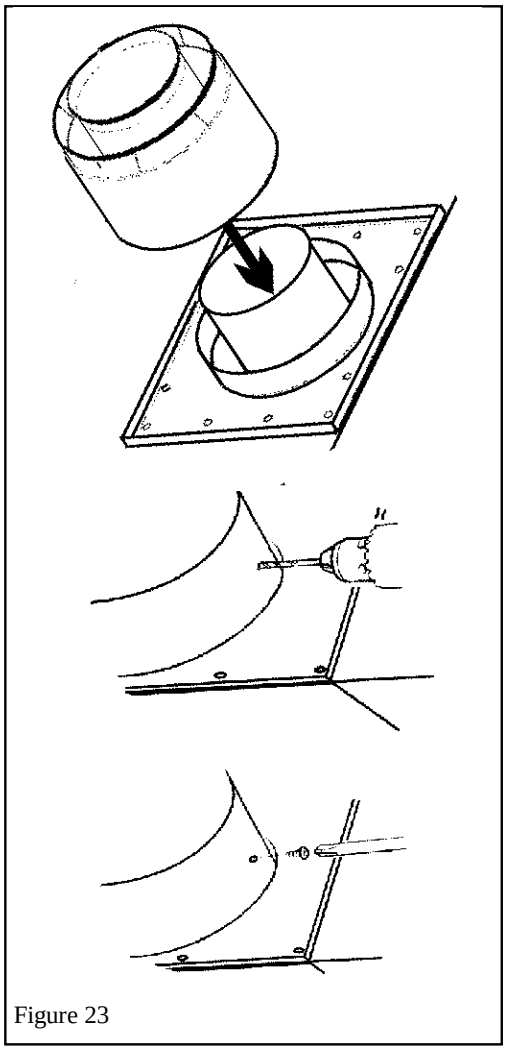


Figure 23

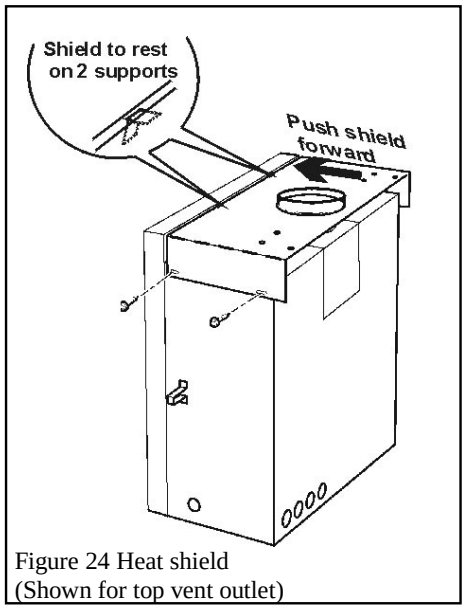


Figure 24 Heat shield
(Shown for top vent outlet)

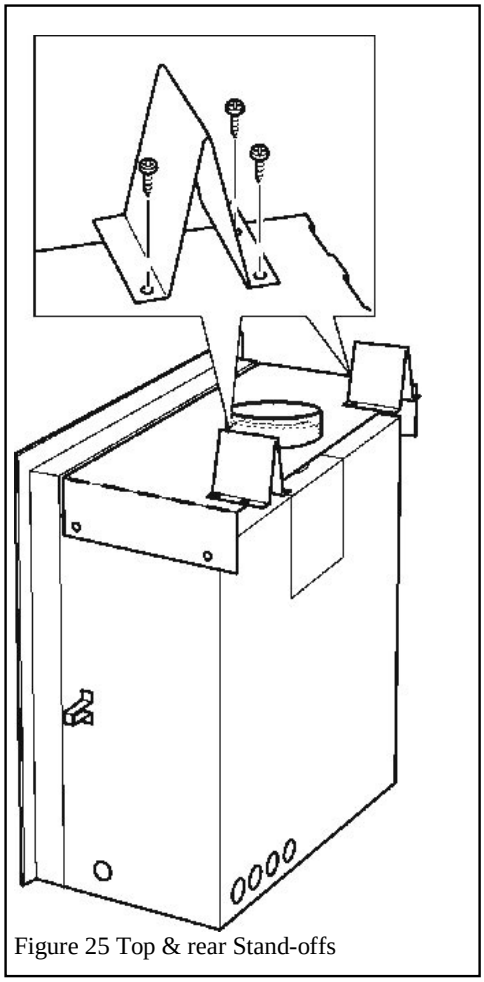


Figure 25 Top & rear Stand-offs

7.5. Top heat shield & Stand-off Fitting

See figures 24 & 25.

1. **If installing appliance with top vent outlet** remove the plate covering the vent hole in the top heat shield by unscrewing four screws. **If installing with rear vent outlet, the plate must remain covering the hole.**
2. Remove the screws at the top rear corner of the case sides.
3. If top vent outlet, locate the heat shield over the vent pipe adapter.
4. Support the front of the shield on the two angle supports.
5. Secure the shield to the case sides by refitting the two screws at the top rear corners and by two screws from the pack fitted near the front.
6. Bend the two top rear stand-offs and fit to the heat shield with three screws each – see figure 26.

7.6. Support Angle Fitting

See figure 26

The distance from the wall angles to the front face of the heater case is adjustable between $^3/_8$" (10mm) and $1^3/_{16}$" (30mm) to allow for a range of wall finish material thickness (e.g. tile etc).

1. Fit the top angle support to the case top with three screws.
2. Fit the two side angle supports with two screws each. Fit the screws from inside the heater case.

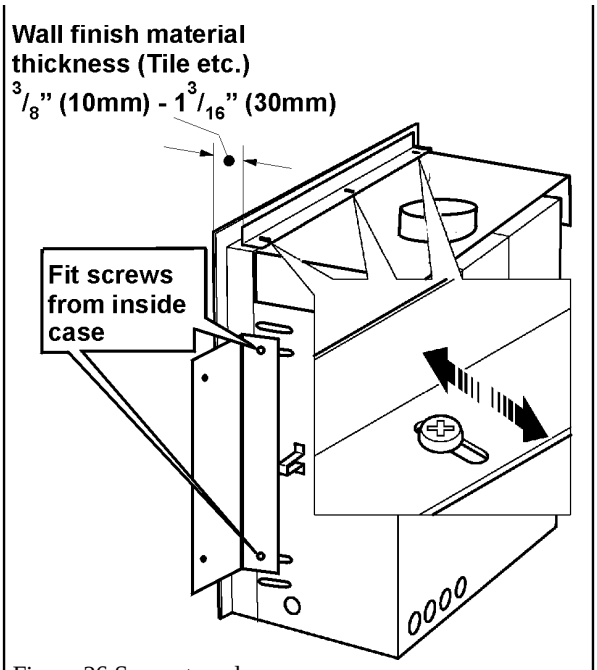


Figure 26 Support angles

7.7. Attaching Air Restrictors

No restrictors are required for appliances, which only have a horizontal vent, run. If installing an appliance, which has rear vent outlet connection and no vertical vent pipe rise, ignore this stage.

There are three types of restrictor supplied with each #534 engine unit. They are identified in figure 27.

Type "A" is for horizontal vent termination.

Types "B" & "C" are for through-the-roof termination.

The restrictors cover part of the openings in the firebox rear wall ports – See figure 28.

The correct restrictors to be fitted for each type of installation are shown in the table below.

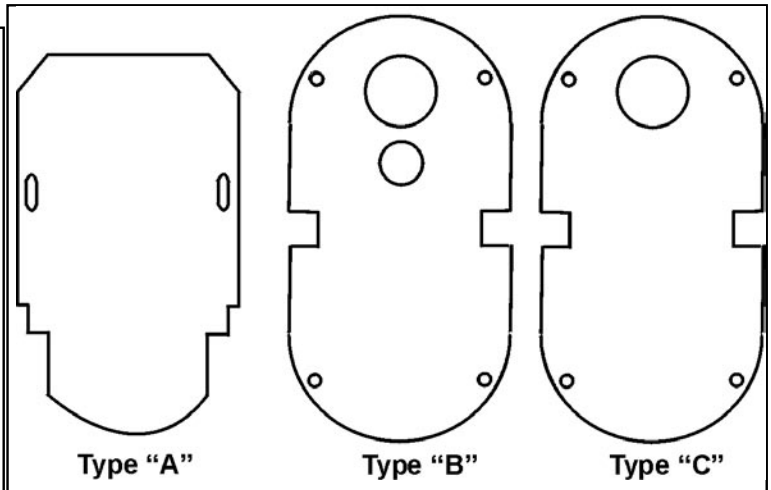


Figure 27 Restrictor identification

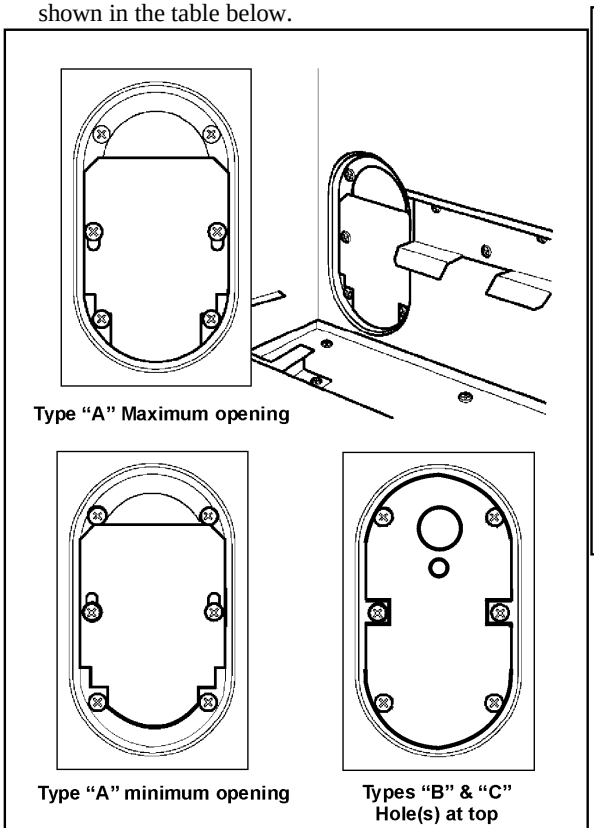


Figure 28 Restrictor locations

Vent terminal	Appliance vent outlet	Vertical vent pipe run	Use restrictor type	Port opening set at
Horizontal through wall with vertical rise	Top	Less than 3ft (91cm)	A	Maximum
		From 3ft (91cm) to 6ft (183cm)	A	Minimum
	Rear	Less than 3ft 6" (107cm)	A	Maximum
		From 3ft 6" (107cm) to 6ft (183cm)	A	Minimum
Vertical through roof	Top or rear	Less than 20ft (6.1m)	B	Not applicable
		From 20ft (6.1m) to 40ft (12.2m)	C	

To fit type "A" restrictors remove the center screws from the rear ports and fit the restrictors using these screws. To set the restrictors at maximum port opening, slacken the bottom screws in the ports, slide the restrictors down as far as possible and tighten the screws over the restrictors.

To set the restrictors at minimum port opening, slide the restrictors up as far as possible and tighten the screws.

To fit types "B" or "C" restrictors remove the top and bottom screws from the rear ports and fit the restrictors using these screws.

7.8. Attaching Rear Ceramic Support

Fit the rear ceramic support to the firebox back panel with three screws. See figure 29.

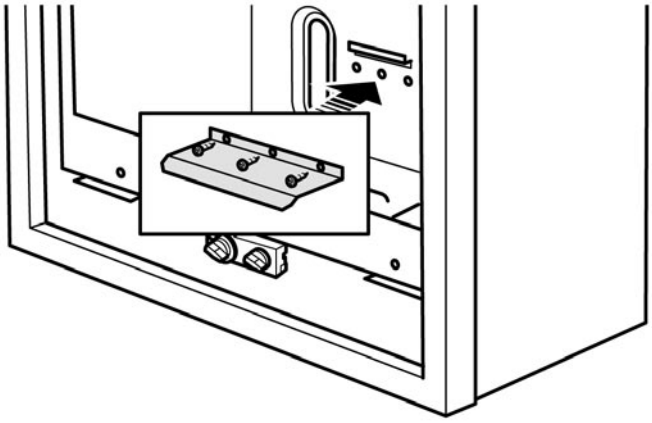


Figure 29 Rear ceramic support

7.9. Attaching to the Framing

1. Place the heater in position in the framing.
2. Secure the side support angles to the side studding through two holes each side with the woodscrews supplied. The top support angle should abut the wall finish but is not fixed to the framing.
3. Check the wall finish requirements with the homeowner. If necessary, adjust the position of the heater so that the distance from the front of the heater case to the angles is suitable for the thickness of the wall finish (e.g. tile, etc.) – see figure 30

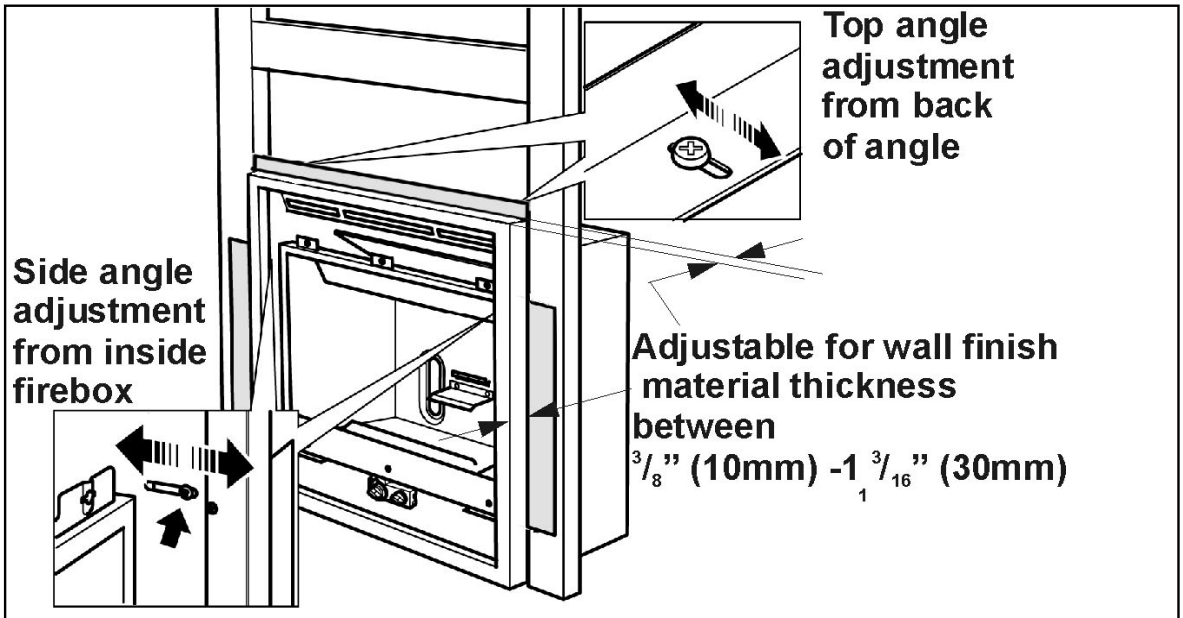

Top angle adjustment from back of angle
Side angle adjustment from inside firebox
Adjustable for wall finish material thickness between
3/8" (10mm) -1 3/16" (30mm)

Figure 30 Adjustment for wall finish

8. INSTALLATIONS WITH HORIZONTAL TERMINATION – INSTALLING TO WALL

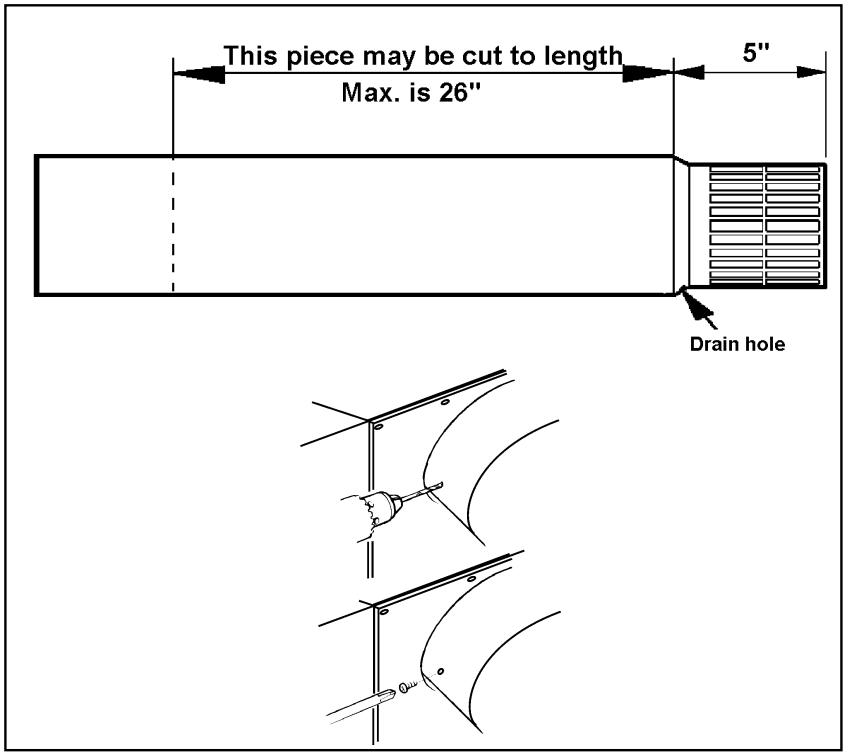
See section 4 for full range of horizontal termination applications.

8.1. Flat On Wall Installations With Valor #551DVK Terminal

1. Cut the vent terminal pipe unit to size. See figure 31.
   Important! The drain hole must be clearly outside the wall.

a) Measure the wall thickness.
b) Add distance from case rear to wall.
c) Measure this total length along the vent unit from where the termination cap joins the main terminal pipes. Mark the unit.
d) Insert the Styrofoam support ring and push it as close as possible to the marked position.
e) Cut the vent tubes squarely to length.
f) **Make sure that all Styrofoam is removed from the vent unit after cutting.**

2. Free the appliance from the frame studding by removing the four screws inside the firebox securing the side angles (See figure 30). Slide the appliance forward to allow the terminal to be fitted.
3. Fit the vent unit fully over the appliance inlet and outlet collars pushing on firmly. Make sure that the drain hole is at the bottom – the seam will be through the notch in the wall plates – See figure 34.
4. Drill through the terminal outer tube and appliance outer collar for #6 screws. See figure 31. **Make sure that the drill does not penetrate the inner tubes.**
5. Secure the terminal to the outer collar with two #6 thread cutting screws supplied (Fig. 31).



8.2. Wall Opening

- Where applicable, fit all the required Dura-vent DV GS pipes and elbows up to the wall. See the Dura-vent instructions supplied with the sections.
- Check the wall opening position.
- Make Wall Opening.
  If the wall is constructed of solid non-combustible materials and has no combustible surface cladding (including wood) inside or outside then the wall plates or Dura-vent thimbles will not be required.
  If the wall has combustible material, mark the wall for a 10”x10” square. If the wall is totally non-combustible (e.g. masonry block or concrete) mark for a 7” circular hole. In both cases, the center of the hole should line up with the centerline of the horizontal vent.

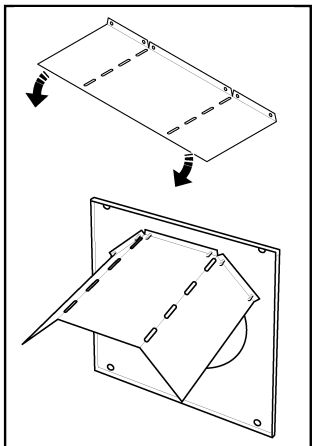


Figure 32

8.3. Valor Terminal #551DVK - Preparing Wall Plates

The wall plates are not used for 7” hole in non-combustible walls.

1. Bend the wall shields and screw to the inside of the wall plates with 6 thread cutting screws per plate. See figure 32.
2. Bend the inner wall plate tab as shown in figure 34 so that the seam on the terminal tube will pass clearly through the plate with the wall shield at the top. Place the inner wall plate over the terminal unit.
3. Slide the appliance/terminal into the wall. Make sure that the drain hole is at the bottom – the seam will be through the notch in the wall plates – See figure 34.
4. Slide the inner wall plate up to the wall. Mark the four holes for the wall screws. Slide the plate away.
5. Drill and plug the wall.
6. Screw the plate to the wall with 4 screws provided.
7. Bend the outer wall plate tab as shown in figure 34.
8. Place the outer wall plate over the terminal unit. Slide the wall plate up to the wall. Mark the four holes for the wall screws. Slide the plate away.
9. Drill and plug the wall.
10. Screw the plate to the wall with 4 screws provided. See figure 34.
11. If the appliance was freed from the frame studding, refit with the four screws inside the firebox securing the side angles. Position the appliance so that it is suitable for the wall finish (See figure 30).

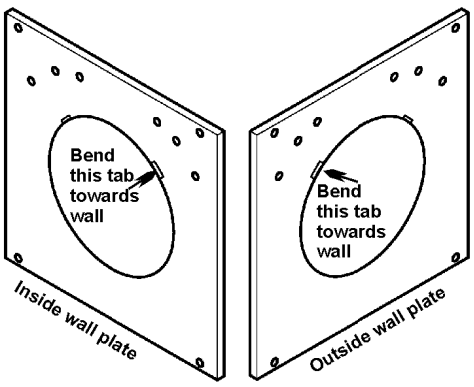


Figure 33

8.4. Dura-vent Terminals – Installing to wall

Unless the wall is totally non-combustible, fit Dura-vent wall thimbles #942.
Install as detailed in the Dura-vent instructions supplied with the pipes.

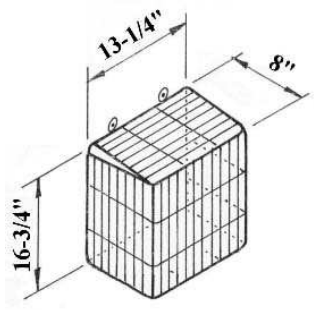


Figure 33a

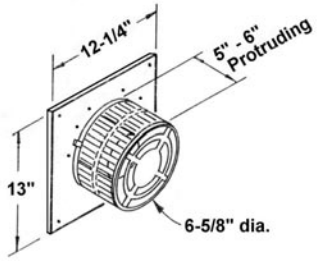


Figure 33b

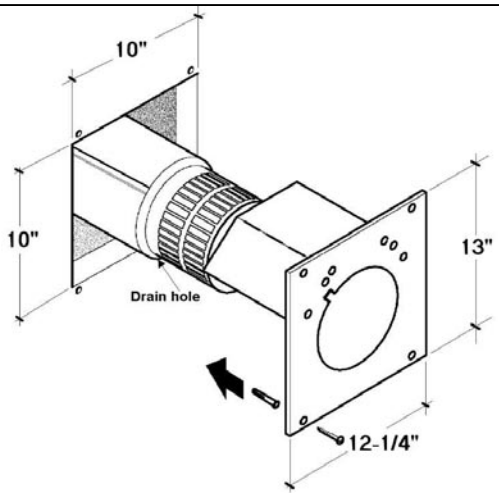
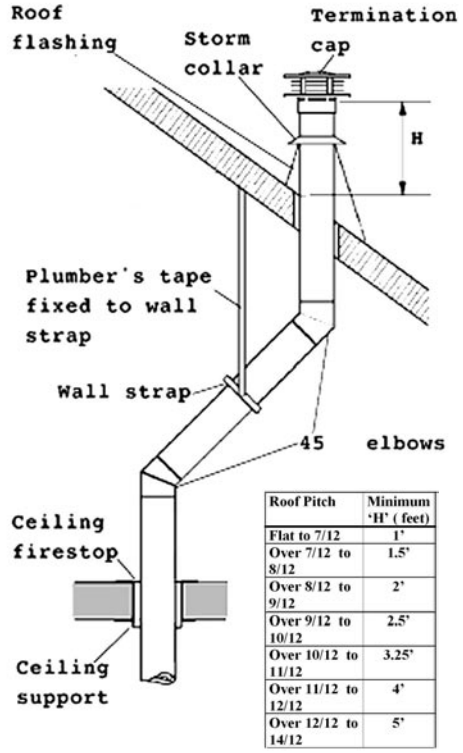


Figure 34

9. INSTALLATIONS WITH THROUGH THE ROOF VERTICAL TERMINATION

- Check the roof pitch to determine which roof flashing will be needed - see vent accessories section 2.4.
- The distance from the roof to the lowest terminal discharge opening ("H" in figure 35) depends on the roof pitch and must be in accordance with the Dura-vent instructions supplied with the termination unit.
  Note: The venting system for these appliances is considered to be a ***Special Venting System.*** *The rule in the Installation Code requiring a minimum vent height of 2ft above any portion of a building within 10ft does not therefore apply.*
- The minimum clearances to combustible materials all round the vent pipes must be in accordance with the dimensions shown in section 4 of this manual.
- Drop a plumb from the ceiling to the center of the appliance vent opening. Mark the position on the ceiling. Drill a small hole at the marked position.
- Determine the position where the vent will pass through the roof. If directly above the position where it penetrates the ceiling, drop a plumb from the roof to the small hole in the ceiling and mark the roof at this spot.
  If rafters or other obstructions will prevent a vertical exit or if clear attic space is desired, the roof outlet can be offset using 45º elbows - see fig. 35.
  Drill a small hole at the marked position.
- A ceiling fire stop must be installed at the second floor and higher floors.
  A ceiling support should be used below the flat ceiling.
  To install the fire stop & support cut and frame a 10" (254mm) square hole centered on the small hole previously drilled - see fig. 36.



Roof Pitch	Minimum 'H' (feet)
Flat to 7/12	1'
Over 7/12 to 8/12	1.5'
Over 8/12 to 9/12	2'
Over 9/12 to 10/12	2.5'
Over 10/12 to 11/12	3.25'
Over 11/12 to 12/12	4'
Over 12/12 to 14/12	5'

Fig 35 Through the roof installation

- Fit vent accessory elbows and pipe lengths as required up through ceiling support boxes and fire stops.
  If installation includes offset, support the offsetting pipes every 3 feet (1m) with wall straps (fig. 35).
- Cut a hole in the roof centered on the small hole. The hole must allow for the minimum clearances to combustible materials - see section 4.
- Fit pipe lengths through the roof. Fit roof flashing securing it with roofing nails.
- Fit storm collar and termination cap.

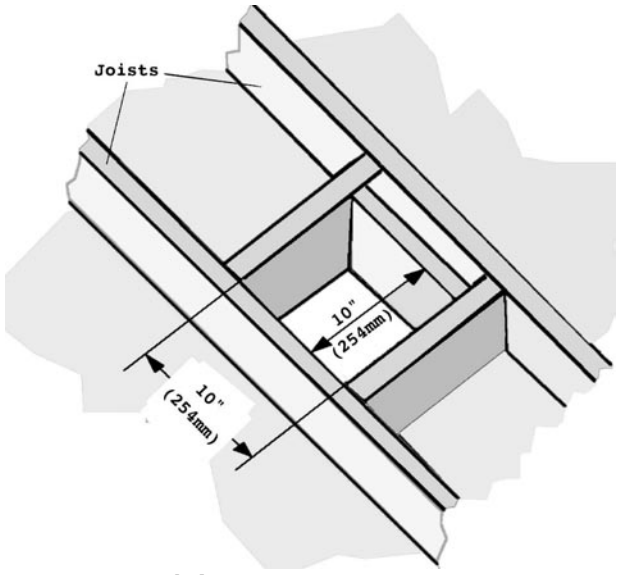


Fig 36 Fire stop hole

10.REMOTE CONTROL INSTALLATION

Caution! Don't connect the batteries to the remote control receiver until the wires are connected to the burner control unit, as short circuit could result in destruction of the electrical components.

When installing the remote please refer to figures 37 and 38 below.

- Connect the wiring harness to the receiver box, by pushing the wire connector on to the receiver circuit board. The plug will only go on one way so please ensure that the wires are pointing up and slot in the board is inline with the tab on the wiring harness plug
- Connect wires "A" (with the "L" terminals) to the connectors "B" on the control valve Please note that the connectors are different sizes, the smaller one fits to the lower connection on the valve.
- Connect the wires "C" to the connectors "D" on the control valve. (Either wire can be fitted to either connector).
- Remove the remote control receiver lid.
- Fit four 1.5V batteries.
- Place the remote control receiver on the "Velcro" pad.
- Fit the 9V battery to the handset transmitter

Remote control operating instructions are on page 31 of this manual and are supplied with the remote control kit.

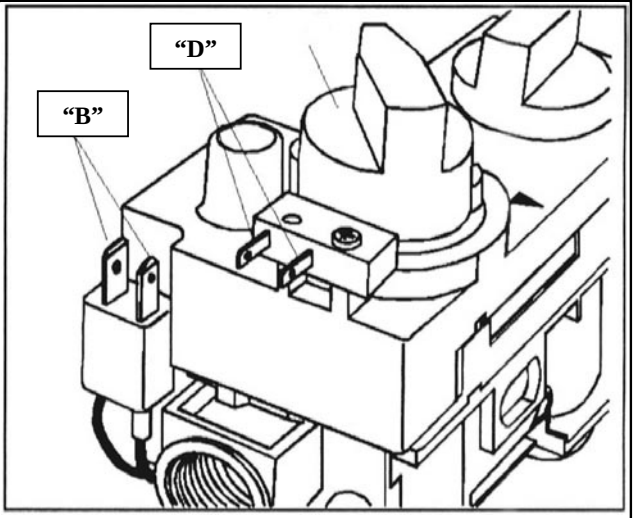


Figure 37 Valve connections

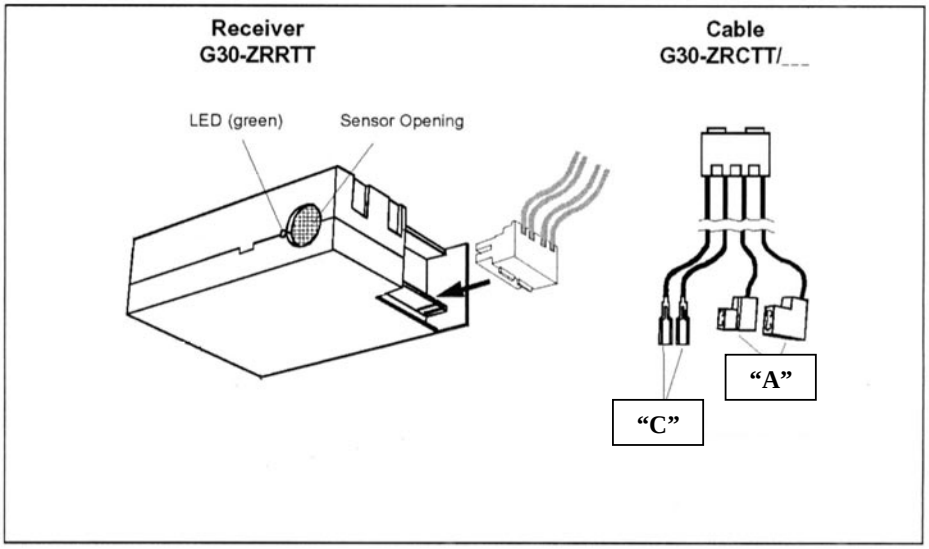


Figure 38

11.GAS SUPPLY INSTALLATION & AERATION SETTING

11.1. Gas Supply Installation

- The gas supply pipe should enter the appliance case through the opening at the rear left side. The supply pipe should be connected to the appliance gas inlet pipe situated at the left side of the control unit. Supply line connection to the inlet pipe is $^{3}/_{8}$"NPT.
  If the circulating fan is to be installed, be aware that the supply pipe run inside the case should be at the same height as the appliance inlet pipe in order to clear the fan. If intending to fit an internal isolating valve, check that it will be clear of the fan.
- Use only new black iron or steel pipes or copper tubing if acceptable - check local codes. ***Note that in USA copper tubing must be internally tinned for protection against sulfur compounds.***
- Unions in gas lines should be of ground joint type.
- The gas supply line must be sized and installed to provide a supply of gas sufficient to meet the maximum demand of the appliance without undue loss of pressure.
- Sealant used must be resistant to the action of all gas constituents including LP gas. Sealant should be applied lightly to male threads to ensure excess sealant does not enter gas lines.
- The supply line should include a manual shut-off valve to allow the appliance to be disconnected for servicing.
- A plugged 1/8"NPT tapping must be installed in the line. The tapping must be accessible for test gauge connection and be immediately upstream of the gas supply connection to the appliance.
- Pressure test the supply line for leaks.
  - The appliance and its individual shut-off valve must be disconnected from the gas supply piping system during any pressure testing of that system at test pressures in excess of ½psig (3.5kPa).
  - The appliance must be isolated from the gas supply piping system by closing its individual manual shut-off valve during any pressure testing of the gas supply piping system at test pressures equal to or less than ½psig (3.5kPa).
  - Failure to either disconnect or isolate the appliance during pressure testing may result in regulator or valve damage. Consult your dealer in this case.
- The minimum supply pressure is given in section 3 of this manual.
- All piping and connections must be tested for leaks after installation or servicing. All leaks must be corrected immediately.
- When testing for leaks:
  - Make sure that the appliance is turned off.
  - Open the manual shut-off valve.
  - Test for leaks by applying a liquid detergent or soap solution to all joints. Bubbles forming indicate a gas leak. ***Never use an open flame to check for leaks.***
  - Correct any leak detected immediately.
- The pressure test tapping locations are shown in figure 39. A built-in non-adjustable regulator controls the burner manifold pressure. The correct pressure range is shown in the table in section 3 of this manual. The pressure check should be made with the burner alight and the thermostat at its highest setting. See lighting instruction section for full operating details.

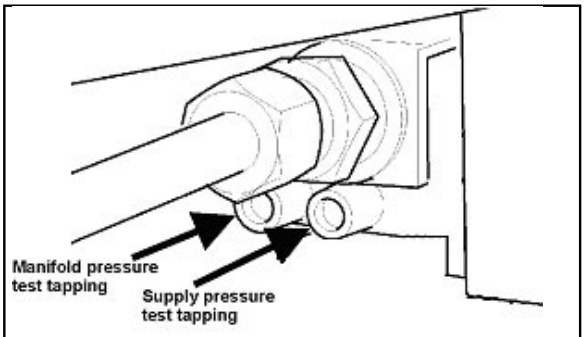


Figure 39 Pressure test tapings

11.2. Aeration Setting Check

The air shutter is factory set at an aeration gap that will give optimum performance for the vast majority of installations. However, in a few unusual installations performance may be improved by adjusting the aeration. The need for adjustment should be determined by operating the appliance with the ceramic fuel effects and window installed. See the "Final checks" section in this manual for adjustment details.
Adjust the aeration by slackening the aeration plate screw and sliding the plate. In an extreme circumstance, the plate can be totally removed. See figure 40.

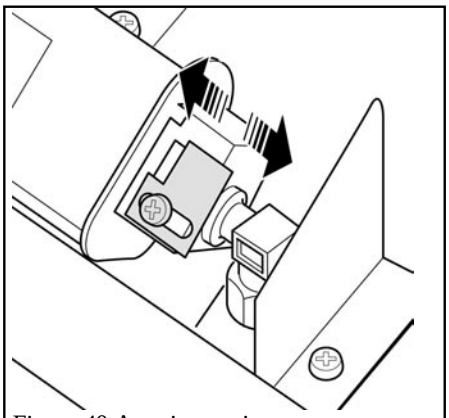


Figure 40 Aeration setting

12.CERAMIC FUEL BED INSTALLATION

12.1. Ceramic Walls Installation

1. Locate the ceramic rear wall in the channel at back of the firebox and flat against the back of the firebox. See figure 41.
2. Locate the sidewalls against the sides of the firebox. Make sure that they are behind the raised edges of the burner module base at the back corners. See figure 42.
3. Remove two screws from under the top front of the firebox. Using these screws fit the port cover. See figure 43.

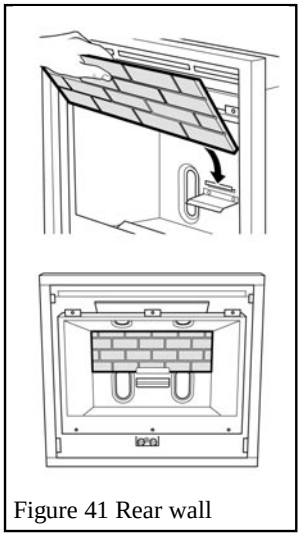


Figure 41 Rear wall

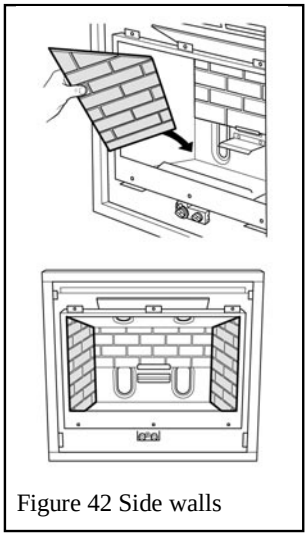


Figure 42 Side walls

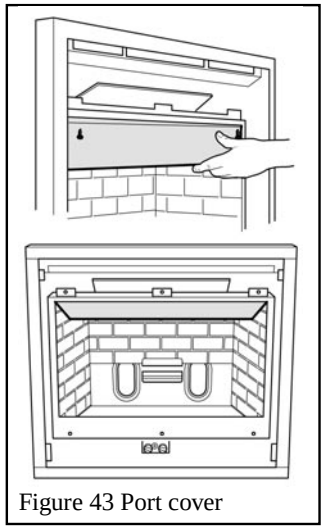


Figure 43 Port cover

12.2. Ceramic Logs Installation

1. Place the ash bed in position. The projections at the front of the ash bed locate against the sloping metal stops immediately behind the burner. See figure 44.
2. Place wedge piece in position locating on the two pins located in the ash bed. See figure 44a.
3. Place the rear log in position locating the two pins in the top of wedge into the holes in the rear log. See figure 45.
4. Place the front log at the front of the firebox as shown in figure 46.
5. Place the right side center log in position locating it on the two locating pins on the left hand side of the ash bed with its “nose” resting at the center of the ash bed as shown in figure 47.
6. Place the right side center log in position locating on the two pins on the right hand side of the ash bed with its nose” resting at the center of the ash bed as shown in figure 48.
7. Place “branch end” of the cross log on the pin located on the center of the rear log and the other end in the locating pocket on the left side of the front log as shown in figure 49.

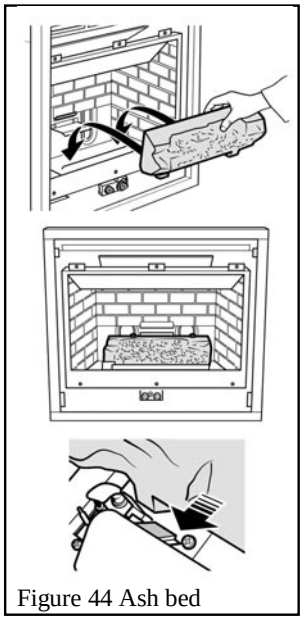


Figure 44 Ash bed

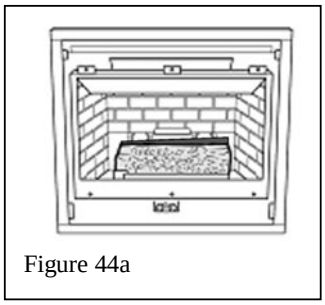


Figure 44a

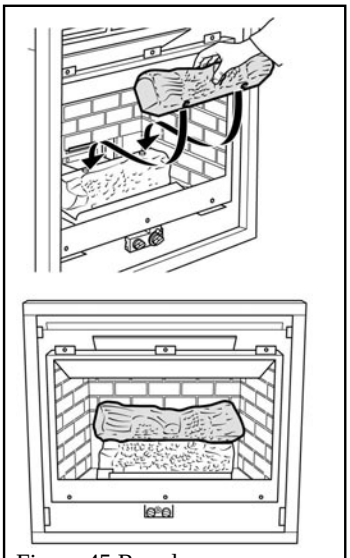


Figure 45 Rear log

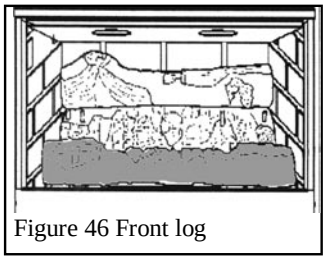


Figure 46 Front log

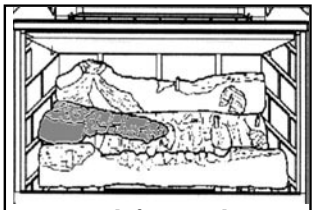


Figure 47 left centre log

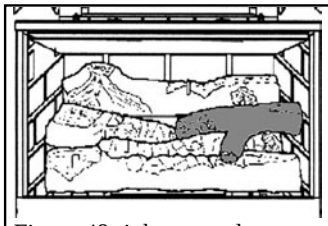


Figure 48 right centre log

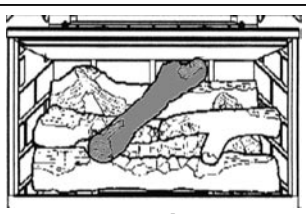


Figure 49 Cross log

13.WINDOW REFITTING & CHECKING

1. Refit the window with the bottom three bolts. The bolts should be screwed in securely.
2. Refit the chain to the top right corner of the window.
3. Refit the top three bolts securing by turning them through 90º.
4. Pull the top of the window forward and release to check that it opens slightly and returns in the event of a delayed ignition explosion. See figure 50.
5. Similarly check the bottom of the window by pulling it forward and releasing. See figure 50.

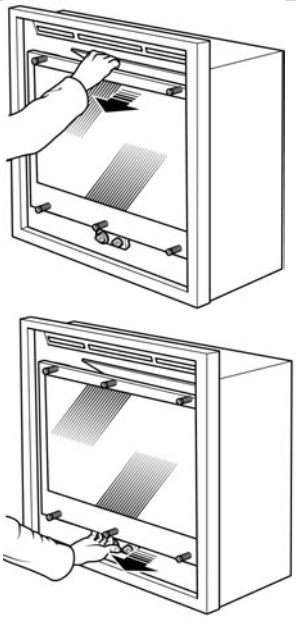


Figure 50

14.OPERATION CHECKS

- Check ignition, pilot stability, burner flames, and the full range of the thermostat settings using the rotary switch inside the appliance and all other controls (wall switch, remote hand unit). See owner's lighting instructions further on in this manual for full details.
- Aeration adjustment

As described in section 11, for natural gas appliances, the burner aeration is adjustable. For the vast majority of installations, no adjustment will be necessary. However, in a very few instances, performance may be improved by sliding the shutter to adjust the aeration by (See figure 46). Evaluate the aeration only after the unit has warmed up – approximately 15 minutes. Increasing aeration will cause the flame to appear more transparent and blue making the ceramic fuel effects glow more. Decreasing aeration will cause the flames to appear more yellow or orange making the fuel effects glow less. ***Too little aeration may result in black carbon forming and dropping into the firebox.***

15.FRONT INSTALLATION

15.1. Additional Optional 3 or 4 Sided Trims

1. Slide a corner connection plate into the channels in the top trim and a side trim. Butt the two trims together. Fit four grub screws and tighten to secure the trims and corner plate. See figure 51.

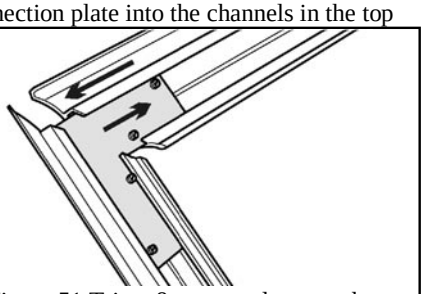


Figure 51 Trims & corner plate attachment

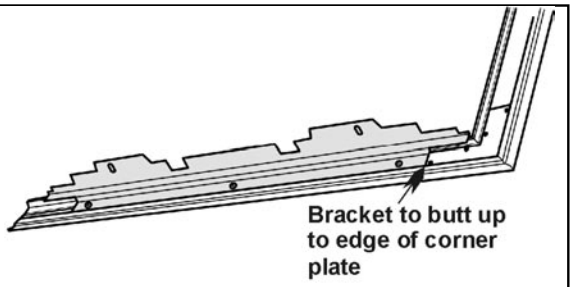


Figure 52 Trim bracket attachment

2. Repeat for the other corner(s).
3. Attach the two trim fixing brackets to the side trims with three screws each side. The brackets must butt up to the edges of the corner connection plates. See figure 52.
4. Attach the complete trim unit to the firebox with four screws as shown in figure 53.

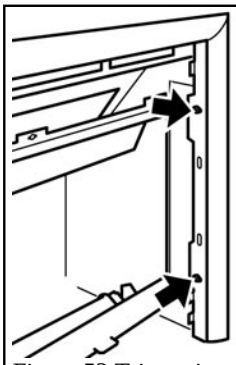


Figure 53 Trim unit installation

15.2. #601SFB Standard Metal Front

1. Fit the lower louver unit using the hinge studs and hinge spacers as shown in figure 54.
2. Fix the two adhesive backed magnet counter plates to the tabs at the firebox sides, which line up with the magnets on the lower louver. See figure 54.
3. Fit the two side channels by hooking into the openings at the sides of the firebox as shown in figure 55.
4. Attach the upper louver by hooking over the tabs near the top of the firebox sides. See figure 56.

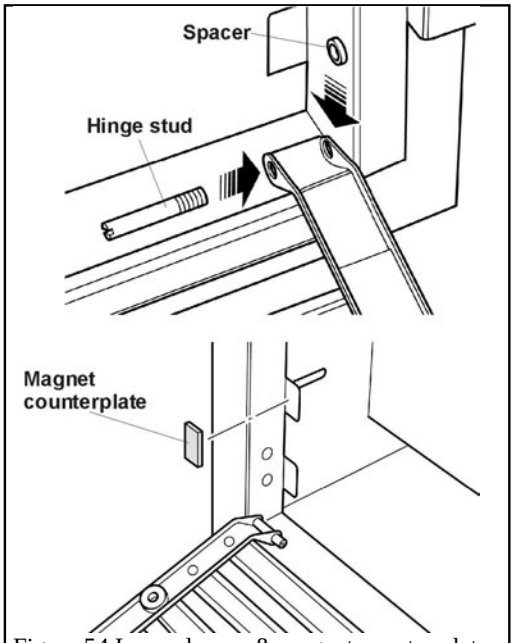


Figure 54 Lower louver & magnet counter plate installation

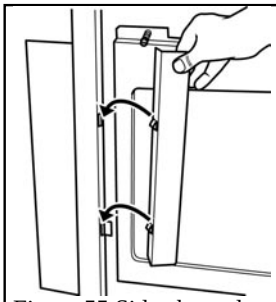


Figure 55 Side channel installation

15.3. #602CFB Cast Iron Front

1. Attach the bottom-casting unit by hooking over the lower tabs at the firebox sides. See figure 57.
2. Attach the top-casting unit by hooking over the four tabs at the firebox sides as shown in figure 58.

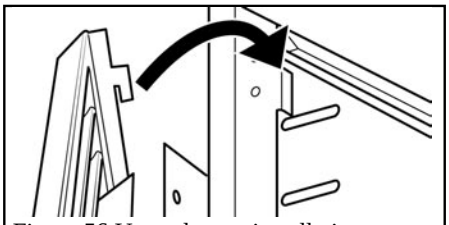


Figure 56 Upper louver installation

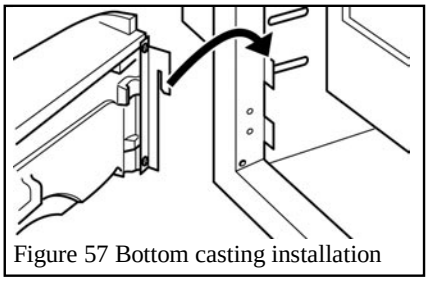


Figure 57 Bottom casting installation

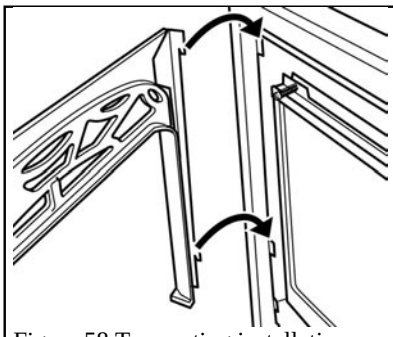


Figure 58 Top casting installation

16.OWNERS INFORMATION

Please read the safety information and notes on page 3.

16.1. Operating Your Fire

The operating instructions are also on a chained plate inside the control access door.

1. For your safety, this appliance is fitted with a flame supervision device, which will shut off the gas supply if, for any reason, the pilot flames go out. This device incorporates a fixed probe, which senses the heat from the pilot flame. If the probe is cool, the device will prevent any gas flow unless the burner control knob is kept pushed in at the PILOT position. See full lighting instructions on next page.

2. The Valorstat Programmable Remote Control

Your Valor Remote Control helps you get the comfort, convenience and aesthetics you want from your Valor Gas Fireplace. The first thing to do is to set the time:

1. With your left thumb, hold down **both** the "AUTO" and the "TIMER" button until the temperature symbol flashes. Let go.
2. Note the digital clock on the bottom right hand corner. The large "up" button (▲) sets the hour; the "down" (▼) button sets the minutes. Set the time. Note: you must start setting the time while the temperature symbol is flashing. If it stops flashing, go back to 1.
3. Let go and wait until the flashing stops. The remote tells you the time you set. It also tells you the current temperature.

The "remote" controls your fireplace in three different ways.

Setting the Temperature

Use this setting when you come in and want to enjoy a certain temperature.
Here's what you do:

1. Push the "AUTO" button until the temperature reading flashes. Let go.
2. While it is still flashing, push the up and down button to the temperature you want. Let it go.
3. Your Valor will reach that temperature and the remote will check the temperature every five minutes, adjusting the amount of fuel needed to give you a steady, even heat.

Note: be patient with settings as it can take a few seconds.

Setting the Flame

Use this setting when you want a particular flame level. For instance, you want to watch flames burn at their highest level, and you don't mind if the room is too hot.
Here's what you do:

1. Press either of the large "up" or "down" buttons.
2. The word "man" displays as well as an arrow in the left upper corner. Let go.
3. To raise the flame, press and hold the "up" button until you come to the flame level you want. Let go.
4. To lower the flame, press and hold the down button until you come to the flame you want. Let go.
5. The **flame level** will remain just as you set it.

Programming Time and Temperature

You can set your Valor to come on before you waken and turn after you leave home and turn on again just before you come home and turn off after going to bed. You can leave it like this for the heating season.
Here's what you do:

1. Decide what temperature you want your Valor to be at; also decide what time you want your Valor to turn on and off; then decide what time you want it to come back on and off in the afternoon or evening. For the first few times you set the timer, it's handy to write these times down.
2. Set the temperature (just as you did in the section on "setting the temperature."
3. Press the "timer" button and hold until "P1*" appears and flashes. Let go. While flashing, push the "up" button to the hour you want your Valor to turn on in the morning and the "down" to the minute.
4. Press "timer" to P1 (moon) and proceed as in step 3, to turn off time.
5. Press "timer" again, and you get "P2*" to set the time to come back on in the afternoon. Set the time.
6. Press "timer" again to get P2 (moon) to set the time for your Valor to go off in the evening.
7. Do nothing else, and your Valor will give you steady, even heat at the temperatures and times you set.
8. Note: If you want to set your Valor for only 1 time on and off, set P2 for the same times as P1.
9. To temporarily override the timer setting, just press "auto" or "manual". Press "timer" when you want to go back to your settings.

3. When first turned on, the decorative flames will appear predominantly blue. After approximately 15 minutes the flames will turn yellow.

16.2. Cleaning

It will be necessary to clean the glass periodically. During startup, condensation, which is normal, forms on the inside of the glass and causes dust, lint etc. to cling to the glass surface. Initially paint, while curing, may deposit a slight film on the glass. We therefore recommend that, during the first few weeks of use, the glass is cleaned two or three times with non-abrasive common household cleaners and warm water. ***Ammonia based cleaners should not be used.*** Subsequently the glass should be cleaned two or three times a season depending on the circumstances. ***Do not clean the glass while it is hot.***

Always close the window securely before lighting

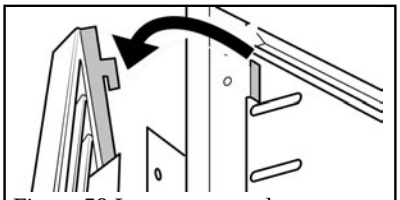


Figure 59 Louver removal

16.2.1. To Clean the Inside of the Glass

- Louver Fronts: Lift and unhook the top louver – see figure 59. Lift and unhook the two side channels – see figure 60. Open the bottom louver – It does not need to be removed.
- Cast Iron Fronts: Lift up and unhook the upper casting. The bottom casting does not need to be removed. See figure 61.
- Push in the three spring loaded bolts at the top of the window and make a quarter turn so that the slots in the bolt heads are horizontal. This will release the top of the window. Swing the top of the window open as far as the chain will allow. The window should be open enough to let you clean the inside of the glass. See figure 62.

Always securely fasten the window before lighting.

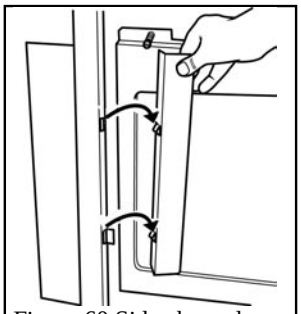


Figure 60 Side channel removal

16.2.2. To Clean the Ceramic Fuel Effects, Firebox Walls & Burner

Dust, etc. can be brushed from the ceramic fuel effects and firebox walls after removing the front unit and completely removing the window.

Dust etc. can also be removed from the burner using a soft brush after removing the ceramic fuel effects.

- Louver Fronts: Lift and unhook the top louver. Open the bottom louver – It does not need to be removed. See figure 59.
  Cast Iron Fronts: Lift up and unhook the upper casting. Lift up and unhook the bottom casting. See figure 61.
- Push in the three spring loaded bolts at the top of the window and make a quarter turn so that the slots in the bolt heads are horizontal. This will release the top of the window. See figure 62.
- Remove the bottom three spring-loaded window bolts. See figure 62.
- Detach the chain from the top right corner of the window. See figure 62.
- Carefully lift the window away. Keep the window and bolts in a safe place.

Always completely remove the window before removing the ceramic fuel effects.
When cleaning, make sure that no particles are brushed into the slots in the burner.
Always securely replace the window securely before lighting.

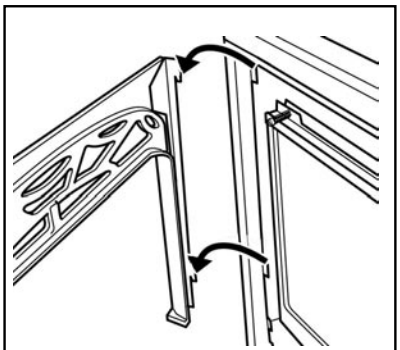


Figure 61 Cast top front removal

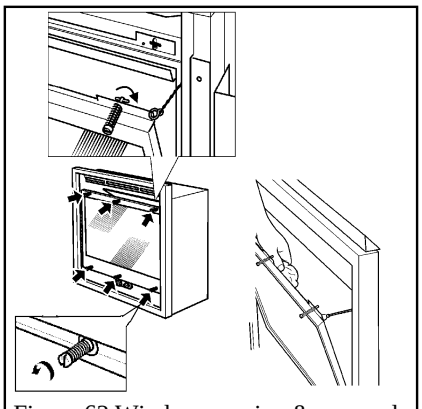


Figure 62 Window opening & removal

FOR YOUR SAFETY READ BEFORE LIGHTING

WARNING: If you do not follow these instructions exactly, a fire or explosion may result causing property damage, personal injury or loss of life.

A. This appliance has a pilot, which must be lighted by hand. When lighting the pilot, follow these instructions exactly.

B. BEFORE LIGHTING smell all around the appliance area for gas. Be sure to smell next to the floor because some gas is heavier than air and will settle on the floor.

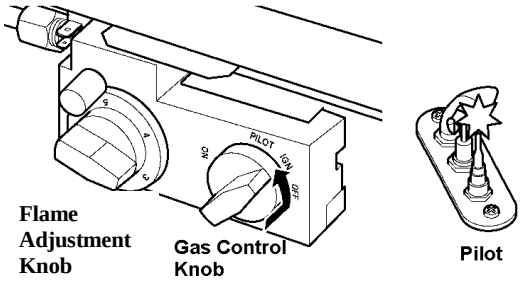
WHAT TO DO IF YOU SMELL GAS

- **Do not try to light any appliance.**
- **Do not touch any electric switch; do not use any phone in your building.**
- **Immediately call your gas supplier from a neighbor's phone. Follow the gas supplier's instructions.**
- **If you cannot reach your gas supplier, call the fire department.**

C. Use only your hand to push in or turn the control knobs. Never use tools. If the controls will not push in or turn by hand, don't try to repair them, call a qualified service technician. Force or attempted repair may result in a fire or explosion.

D. Do not use this appliance if any part has been under water. Immediately call a qualified service technician to inspect the appliance and to replace any part of the control system and any gas control, which has been under water.

LIGHTING INSTRUCTIONS



1. STOP! Read the safety information above.

2. Set the flame adjustment knob as far clockwise as possible*.

3. Turn the gas control knob clockwise to OFF.

NOTE: The knob cannot be turned from PILOT to OFF unless it is pushed in partially. Do not force.

4. Wait five (5) minutes to clear out any gas, then smell for gas, including near the floor. If you smell gas, STOP! Follow "B" in the safety information above. If you don't smell gas, go to the next step.

5. Find the pilot. It is at the left side of the firebox viewed through hole in front log.

6. Push in and turn the gas control knob counterclockwise until resistance is felt just before the "IGN" position.

7. Keep pushed in for a few seconds to allow gas to flow then, keeping knob depressed, turn to "PILOT" to light pilot. Hold knob in for a further 5 seconds then release. The knob should pop back out. Pilot should remain lit. If pilot goes out repeat steps 3 through 7.

- **If knob does not pop out when released, stop and immediately call your service technician or gas supplier.**
- **If pilot lights but will not stay lit after several tries, turn the gas control knob to "OFF" and call your service technician or gas supplier.**

8. When pilot is lit, partially depress the knob and turn to "ON" position (Burner alight).

- **Do not leave knob set between "PILOT" and "ON".**

9. Set the flame height to desired setting*.

TO TURN OFF GAS TO APPLIANCE

1. Set the flame adjustment knob as far clockwise as possible*

2. Push in gas control knob slightly and turn clockwise to "OFF". Do not force.

*** The flame height can be increased or decreased by depressing the remote control hand set button.**

16.3. Checks

- A periodic check of the pilot and burner flames should be made. Check after the fire has been on for at least 30 minutes. The pilot flame must cover the tip of the thermocouple probe. The main burner flame pattern will vary from appliance to appliance depending on the type of installation and climatic conditions. See figures 63 & 64.
- The appliance area must always be kept clear and free from combustible materials, gasoline and other flammable vapors and liquids.
- Inspect the vent terminal outdoors regularly to make sure that dirt, snow, insects, leaves etc, do not obstruct it.
- Examine the whole vent system regularly. We recommend annually.

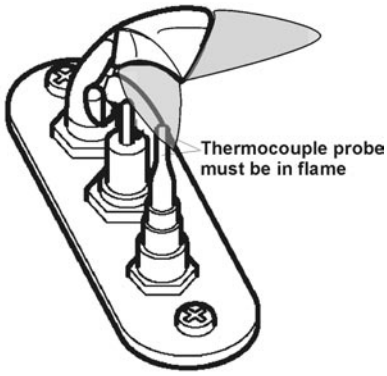


Figure 63 Pilot flame

16.4. Servicing

All appliances use four 1.5V AA batteries for thermostat control.
For Appliances with Wall switch only the batteries are accessible by opening the bottom access panel.
For Appliances with Remote Control the batteries are accessible by opening the bottom access panel and removing the lid of the remote control receiver. The handset has a 9V battery.

16.5. General servicing

If you require any attention to your appliance, contact your supplier quoting the model number. It will be helpful if the appliance serial number can also be quoted. This is on the rating plate, which is on a chained, plate accessible by opening the bottom access panel.
The repair parts are shown in the separate repair parts leaflet.
Please always quote part number and description when requesting spare parts.

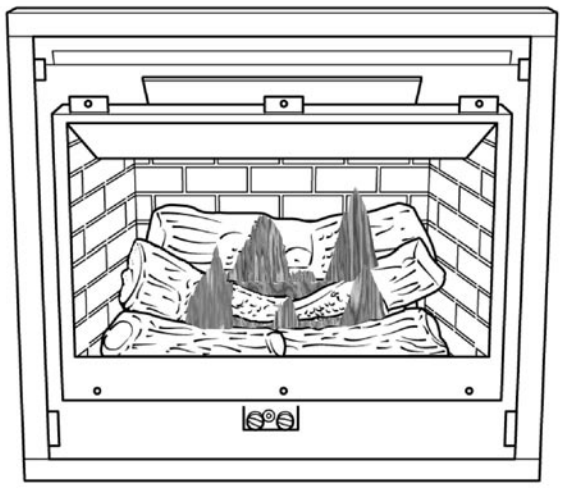


Figure 64 Main flames